APPENDIX A

SSS WDR and Order No. WQ 2013-0058-EXEC, and Riverwatch Settlement Agreement

STATE WATER RESOURCES CONTROL BOARD
ORDER NO. 2006-0003-DWQ

STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

The State Water Resources Control Board, hereinafter referred to as "State Water Board", finds that:

1. All federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California are required to comply with the terms of this Order. Such entities are hereinafter referred to as "Enrollees".

2. Sanitary sewer overflows (SSOs) are overflows from sanitary sewer systems of domestic wastewater, as well as industrial and commercial wastewater, depending on the pattern of land uses in the area served by the sanitary sewer system. SSOs often contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen-demanding organic compounds, oil and grease and other pollutants. SSOs may cause a public nuisance, particularly when raw untreated wastewater is discharged to areas with high public exposure, such as streets or surface waters used for drinking, fishing, or body contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.

3. Sanitary sewer systems experience periodic failures resulting in discharges that may affect waters of the state. There are many factors (including factors related to geology, design, construction methods and materials, age of the system, population growth, and system operation and maintenance), which affect the likelihood of an SSO. A proactive approach that requires Enrollees to ensure a system-wide operation, maintenance, and management plan is in place will reduce the number and frequency of SSOs within the state. This approach will in turn decrease the risk to human health and the environment caused by SSOs.

4. Major causes of SSOs include: grease blockages, root blockages, sewer line flood damage, manhole structure failures, vandalism, pump station mechanical failures, power outages, excessive storm or ground water inflow/infiltration, debris blockages, sanitary sewer system age and construction material failures, lack of proper operation and maintenance, insufficient capacity and contractor-caused damages. Many SSOs are preventable with adequate and appropriate facilities, source control measures and operation and maintenance of the sanitary sewer system.

SEWER SYSTEM MANAGEMENT PLANS

5. To facilitate proper funding and management of sanitary sewer systems, each Enrollee must develop and implement a system-specific Sewer System Management Plan (SSMP). To be effective, SSMPs must include provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems, while taking into consideration risk management and cost benefit analysis. Additionally, an SSMP must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions.

6. Many local public agencies in California have already developed SSMPs and implemented measures to reduce SSOs. These entities can build upon their existing efforts to establish a comprehensive SSMP consistent with this Order. Others, however, still require technical assistance and, in some cases, funding to improve sanitary sewer system operation and maintenance in order to reduce SSOs.

7. SSMP certification by technically qualified and experienced persons can provide a useful and cost-effective means for ensuring that SSMPs are developed and implemented appropriately.

8. It is the State Water Board's intent to gather additional information on the causes and sources of SSOs to augment existing information and to determine the full extent of SSOs and consequent public health and/or environmental impacts occurring in the State.

9. Both uniform SSO reporting and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached Monitoring and Reporting Program No. 2006-0003-DWQ, are necessary to assure compliance with these waste discharge requirements (WDRs).

10. Information regarding SSOs must be provided to Regional Water Boards and other regulatory agencies in a timely manner and be made available to the public in a complete, concise, and timely fashion.

11. Some Regional Water Boards have issued WDRs or WDRs that serve as National Pollution Discharge Elimination System (NPDES) permits to sanitary sewer system owners/operators within their jurisdictions. This Order establishes minimum requirements to prevent SSOs. Although it is the State Water Board's intent that this Order be the primary regulatory mechanism for sanitary sewer systems statewide, Regional Water Boards may issue more stringent or more

prescriptive WDRs for sanitary sewer systems. Upon issuance or reissuance of a Regional Water Board's WDRs for a system subject to this Order, the Regional Water Board shall coordinate its requirements with stated requirements within this Order, to identify requirements that are more stringent, to remove requirements that are less stringent than this Order, and to provide consistency in reporting.

REGULATORY CONSIDERATIONS

12. California Water Code section 13263 provides that the State Water Board may prescribe general WDRs for a category of discharges if the State Water Board finds or determines that:

    - The discharges are produced by the same or similar operations;
    - The discharges involve the same or similar types of waste;
    - The discharges require the same or similar treatment standards; and
    - The discharges are more appropriately regulated under general discharge requirements than individual discharge requirements.

    This Order establishes requirements for a class of operations, facilities, and discharges that are similar throughout the state.

13. The issuance of general WDRs to the Enrollees will:
    a) Reduce the administrative burden of issuing individual WDRs to each Enrollee;
    b) Provide for a unified statewide approach for the reporting and database tracking of SSOs;
    c) Establish consistent and uniform requirements for SSMP development and implementation;
    d) Provide statewide consistency in reporting; and
    e) Facilitate consistent enforcement for violations.

14. The beneficial uses of surface waters that can be impaired by SSOs include, but are not limited to, aquatic life, drinking water supply, body contact and non-contact recreation, and aesthetics. The beneficial uses of ground water that can be impaired include, but are not limited to, drinking water and agricultural supply. Surface and ground waters throughout the state support these uses to varying degrees.

15. The implementation of requirements set forth in this Order will ensure the reasonable protection of past, present, and probable future beneficial uses of water and the prevention of nuisance. The requirements implement the water quality control plans (Basin Plans) for each region and take into account the environmental characteristics of hydrographic units within the state. Additionally, the State Water Board has considered water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect

water quality in the area, costs associated with compliance with these requirements, the need for developing housing within California, and the need to develop and use recycled water.

16. The Federal Clean Water Act largely prohibits any discharge of pollutants from a point source to waters of the United States except as authorized under an NPDES permit. In general, any point source discharge of sewage effluent to waters of the United States must comply with technology-based, secondary treatment standards, at a minimum, and any more stringent requirements necessary to meet applicable water quality standards and other requirements. Hence, the unpermitted discharge of wastewater from a sanitary sewer system to waters of the United States is illegal under the Clean Water Act. In addition, many Basin Plans adopted by the Regional Water Boards contain discharge prohibitions that apply to the discharge of untreated or partially treated wastewater. Finally, the California Water Code generally prohibits the discharge of waste to land prior to the filing of any required report of waste discharge and the subsequent issuance of either WDRs or a waiver of WDRs.

17. California Water Code section 13263 requires a water board to, after any necessary hearing, prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge. The requirements shall, among other things, take into consideration the need to prevent nuisance.

18. California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
    a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
    b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
    c. Occurs during, or as a result of, the treatment or disposal of wastes.

19. This Order is consistent with State Water Board Resolution No. 68-16 (Statement of Policy with Respect to Maintaining High Quality of Waters in California) in that the Order imposes conditions to prevent impacts to water quality, does not allow the degradation of water quality, will not unreasonably affect beneficial uses of water, and will not result in water quality less than prescribed in State Water Board or Regional Water Board plans and policies.

20. The action to adopt this General Order is exempt from the California Environmental Quality Act (Public Resources Code §21000 et seq.) because it is an action taken by a regulatory agency to assure the protection of the environment and the regulatory process involves procedures for protection of the environment. (Cal. Code Regs., tit. 14, §15308). In addition, the action to adopt

this Order is exempt from CEQA pursuant to Cal.Code Regs., title 14, §15301 to the extent that it applies to existing sanitary sewer collection systems that constitute "existing facilities" as that term is used in Section 15301, and §15302, to the extent that it results in the repair or replacement of existing systems involving negligible or no expansion of capacity.

21. The Fact Sheet, which is incorporated by reference in the Order, contains supplemental information that was also considered in establishing these requirements.

22. The State Water Board has notified all affected public agencies and all known interested persons of the intent to prescribe general WDRs that require Enrollees to develop SSMPs and to report all SSOs.

23. The State Water Board conducted a public hearing on February 8, 2006, to receive oral and written comments on the draft order. The State Water Board received and considered, at its May 2, 2006, meeting, additional public comments on substantial changes made to the proposed general WDRs following the February 8, 2006, public hearing. The State Water Board has considered all comments pertaining to the proposed general WDRs.

IT IS HEREBY ORDERED, that pursuant to California Water Code section 13263, the Enrollees, their agents, successors, and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted hereunder, shall comply with the following:

A. DEFINITIONS

1. **Sanitary sewer overflow (SSO)** - Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:
   (i) Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
   (ii) Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
   (iii) Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

2. **Sanitary sewer system** – Any system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant headworks used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, and discharges into these temporary storage facilities are not considered to be SSOs.

For purposes of this Order, sanitary sewer systems include only those systems owned by public agencies that are comprised of more than one mile of pipes or sewer lines.

3. **Enrollee** - A federal or state agency, municipality, county, district, and other public entity that owns or operates a sanitary sewer system, as defined in the general WDRs, and that has submitted a complete and approved application for coverage under this Order.

4. **SSO Reporting System** – Online spill reporting system that is hosted, controlled, and maintained by the State Water Board. The web address for this site is http://ciwqs.waterboards.ca.gov. This online database is maintained on a secure site and is controlled by unique usernames and passwords.

5. **Untreated or partially treated wastewater** – Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.

6. **Satellite collection system** – The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility to which the sanitary sewer system is tributary.

7. **Nuisance** - California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
    a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
    b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
    c. Occurs during, or as a result of, the treatment or disposal of wastes.

B. APPLICATION REQUIREMENTS

1. Deadlines for Application – All public agencies that currently own or operate sanitary sewer systems within the State of California must apply for coverage under the general WDRs within six (6) months of the date of adoption of the general WDRs. Additionally, public agencies that acquire or assume responsibility for operating sanitary sewer systems after the date of adoption of this Order must apply for coverage under the general WDRs at least three (3) months prior to operation of those facilities.

2. Applications under the general WDRs – In order to apply for coverage pursuant to the general WDRs, a legally authorized representative for each agency must submit a complete application package. Within sixty (60) days of adoption of the general WDRs, State Water Board staff will send specific instructions on how to

apply for coverage under the general WDRs to all known public agencies that own sanitary sewer systems. Agencies that do not receive notice may obtain applications and instructions online on the Water Board's website.

3. Coverage under the general WDRs – Permit coverage will be in effect once a complete application package has been submitted and approved by the State Water Board's Division of Water Quality.

C. PROHIBITIONS

1. Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.

2. Any SSO that results in a discharge of untreated or partially treated wastewater that creates a nuisance as defined in California Water Code Section 13050(m) is prohibited.

D. PROVISIONS

1. The Enrollee must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for enforcement action.

2. It is the intent of the State Water Board that sanitary sewer systems be regulated in a manner consistent with the general WDRs. Nothing in the general WDRs shall be:

    (i) Interpreted or applied in a manner inconsistent with the Federal Clean Water Act, or supersede a more specific or more stringent state or federal requirement in an existing permit, regulation, or administrative/judicial order or Consent Decree;
    (ii) Interpreted or applied to authorize an SSO that is illegal under either the Clean Water Act, an applicable Basin Plan prohibition or water quality standard, or the California Water Code;
    (iii) Interpreted or applied to prohibit a Regional Water Board from issuing an individual NPDES permit or WDR, superseding this general WDR, for a sanitary sewer system, authorized under the Clean Water Act or California Water Code; or
    (iv) Interpreted or applied to supersede any more specific or more stringent WDRs or enforcement order issued by a Regional Water Board.

3. The Enrollee shall take all feasible steps to eliminate SSOs. In the event that an SSO does occur, the Enrollee shall take all feasible steps to contain and mitigate the impacts of an SSO.

4. In the event of an SSO, the Enrollee shall take all feasible steps to prevent untreated or partially treated wastewater from discharging from storm drains into

flood control channels or waters of the United States by blocking the storm drainage system and by removing the wastewater from the storm drains.

5. All SSOs must be reported in accordance with Section G of the general WDRs.

6. In any enforcement action, the State and/or Regional Water Boards will consider the appropriate factors under the duly adopted State Water Board Enforcement Policy. And, consistent with the Enforcement Policy, the State and/or Regional Water Boards must consider the Enrollee's efforts to contain, control, and mitigate SSOs when considering the California Water Code Section 13327 factors. In assessing these factors, the State and/or Regional Water Boards will also consider whether:

   (i) The Enrollee has complied with the requirements of this Order, including requirements for reporting and developing and implementing a SSMP;

   (ii) The Enrollee can identify the cause or likely cause of the discharge event;

   (iii) There were no feasible alternatives to the discharge, such as temporary storage or retention of untreated wastewater, reduction of inflow and infiltration, use of adequate backup equipment, collecting and hauling of untreated wastewater to a treatment facility, or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP. It is inappropriate to consider the lack of feasible alternatives, if the Enrollee does not implement a periodic or continuing process to identify and correct problems.

   (iv) The discharge was exceptional, unintentional, temporary, and caused by factors beyond the reasonable control of the Enrollee;

   (v) The discharge could have been prevented by the exercise of reasonable control described in a certified SSMP for:
      - Proper management, operation and maintenance;
      - Adequate treatment facilities, sanitary sewer system facilities, and/or components with an appropriate design capacity, to reasonably prevent SSOs (e.g., adequately enlarging treatment or collection facilities to accommodate growth, infiltration and inflow (I/I), etc.);
      - Preventive maintenance (including cleaning and fats, oils, and grease (FOG) control);
      - Installation of adequate backup equipment; and
      - Inflow and infiltration prevention and control to the extent practicable.

   (vi) The sanitary sewer system design capacity is appropriate to reasonably prevent SSOs.

(vii) The Enrollee took all reasonable steps to stop and mitigate the impact of the discharge as soon as possible.

7. When a sanitary sewer overflow occurs, the Enrollee shall take all feasible steps and necessary remedial actions to 1) control or limit the volume of untreated or partially treated wastewater discharged, 2) terminate the discharge, and 3) recover as much of the wastewater discharged as possible for proper disposal, including any wash down water.

   The Enrollee shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:

   (i) Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure;
   (ii) Vacuum truck recovery of sanitary sewer overflows and wash down water;
   (iii) Cleanup of debris at the overflow site;
   (iv) System modifications to prevent another SSO at the same location;
   (v) Adequate sampling to determine the nature and impact of the release; and
   (vi) Adequate public notification to protect the public from exposure to the SSO.

8. The Enrollee shall properly, manage, operate, and maintain all parts of the sanitary sewer system owned or operated by the Enrollee, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities.

9. The Enrollee shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices.

10. The Enrollee shall provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the Enrollee's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the Enrollee.

11. The Enrollee shall develop and implement a written Sewer System Management Plan (SSMP) and make it available to the State and/or Regional Water Board upon request. A copy of this document must be publicly available at the Enrollee's office and/or available on the Internet. This SSMP must be approved by the Enrollee's governing board at a public meeting.

12. In accordance with the California Business and Professions Code sections 6735, 7835, and 7835.1, all engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. Specific elements of the SSMP that require professional evaluation and judgments shall be prepared by or under the direction of appropriately qualified professionals, and shall bear the professional(s)' signature and stamp.

13. The mandatory elements of the SSMP are specified below. However, if the Enrollee believes that any element of this section is not appropriate or applicable to the Enrollee's sanitary sewer system, the SSMP program does not need to address that element. The Enrollee must justify why that element is not applicable. The SSMP must be approved by the deadlines listed in the SSMP Time Schedule below.

Sewer System Management Plan (SSMP)

(i) **Goal**: The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.

(ii) **Organization**: The SSMP must identify:

(a) The name of the responsible or authorized representative as described in Section J of this Order.

(b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and

(c) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

(iii) **Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

(a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);

(b) Require that sewers and connections be properly designed and constructed;

(c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;

(d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and

(e) Enforce any violation of its sewer ordinances.

(iv) **Operation and Maintenance Program**. The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:

(a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;

(b) Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;

(c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;

(d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and

(e) Provide equipment and replacement part inventories, including identification of critical replacement parts.

(v) **Design and Performance Provisions**:

(a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and

(b) Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

(vi) **Overflow Emergency Response Plan -** Each Enrollee shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

(a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;

(b) A program to ensure an appropriate response to all overflows;

(c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;

(d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;

(e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and

(f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

(vii) **FOG Control Program:** Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:

(a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;

(b) A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;

(c) The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;

(d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;

(e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;

(f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and

(g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.

(viii) **System Evaluation and Capacity Assurance Plan**: The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

(a) **Evaluation**: Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs

that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;

(b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and

(c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.

(d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14.

(ix) **Monitoring, Measurement, and Program Modifications:** The Enrollee shall:

(a) Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;

(b) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;

(c) Assess the success of the preventative maintenance program;

(d) Update program elements, as appropriate, based on monitoring or performance evaluations; and

(e) Identify and illustrate SSO trends, including: frequency, location, and volume.

(x) **SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the

Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

(xi) **Communication Program** – The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

14. Both the SSMP and the Enrollee's program to implement the SSMP must be certified by the Enrollee to be in compliance with the requirements set forth above and must be presented to the Enrollee's governing board for approval at a public meeting. The Enrollee shall certify that the SSMP, and subparts thereof, are in compliance with the general WDRs within the time frames identified in the time schedule provided in subsection D.15, below.

    In order to complete this certification, the Enrollee's authorized representative must complete the certification portion in the Online SSO Database Questionnaire by checking the appropriate milestone box, printing and signing the automated form, and sending the form to:

    State Water Resources Control Board
    Division of Water Quality
    Attn: SSO Program Manager
    P.O. Box 100
    Sacramento, CA 95812

    The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the Enrollee is required in accordance with D.14 when significant updates to the SSMP are made. To complete the re-certification process, the Enrollee shall enter the data in the Online SSO Database and mail the form to the State Water Board, as described above.

15. The Enrollee shall comply with these requirements according to the following schedule. This time schedule does not supersede existing requirements or time schedules associated with other permits or regulatory requirements.

Sewer System Management Plan Time Schedule

<table>
<tr><td>Task and Associated Section</td><td colspan="4">Completion Date</td></tr>
<tr><td></td><td>Population > 100,000</td><td>Population between 100,000 and 10,000</td><td>Population between 10,000 and 2,500</td><td>Population < 2,500</td></tr>
<tr><td>Application for Permit Coverage
Section C</td><td colspan="4">6 months after WDRs Adoption</td></tr>
<tr><td>Reporting Program
Section G</td><td colspan="4">6 months after WDRs Adoption[1]</td></tr>
<tr><td>SSMP Development Plan and Schedule
No specific Section</td><td>9 months after WDRs Adoption[2]</td><td>12 months after WDRs Adoption[2]</td><td>15 months after WDRs Adoption[2]</td><td>18 months after WDRs Adoption[2]</td></tr>
<tr><td>Goals and Organization Structure
Section D 13 (i) & (ii)</td><td colspan="2">12 months after WDRs Adoption[2]</td><td colspan="2">18 months after WDRs Adoption[2]</td></tr>
<tr><td>Overflow Emergency Response Program
Section D 13 (vi)</td><td rowspan="3">24 months after WDRs Adoption[2]</td><td rowspan="3">30 months after WDRs Adoption[2]</td><td rowspan="3">36 months after WDRs Adoption[2]</td><td rowspan="3">39 months after WDRs Adoption[2]</td></tr>
<tr><td>Legal Authority
Section D 13 (iii)</td></tr>
<tr><td>Operation and Maintenance Program
Section D 13 (iv)</td></tr>
<tr><td>Grease Control Program
Section D 13 (vii)</td><td rowspan="3">36 months after WDRs Adoption</td><td rowspan="3">39 months after WDRs Adoption</td><td rowspan="3">48 months after WDRs Adoption</td><td rowspan="3">51 months after WDRs Adoption</td></tr>
<tr><td>Design and Performance
Section D 13 (v)</td></tr>
<tr><td>System Evaluation and Capacity Assurance Plan
Section D 13 (viii)</td></tr>
<tr><td>Final SSMP, incorporating all of the SSMP requirements
Section D 13</td><td></td><td></td><td></td><td></td></tr>
</table>

1. In the event that by July 1, 2006 the Executive Director is able to execute a memorandum of agreement (MOA) with the California Water Environment Association (CWEA) or discharger representatives outlining a strategy and time schedule for CWEA or another entity to provide statewide training on the adopted monitoring program, SSO database electronic reporting, and SSMP development, consistent with this Order, then the schedule of Reporting Program Section G shall be replaced with the following schedule:

Reporting Program ***Section G***	
Regional Boards 4, 8, and 9	8 months after WDRs Adoption
Regional Boards 1, 2, and 3	12 months after WDRs Adoption
Regional Boards 5, 6, and 7	16 months after WDRs Adoption

If this MOU is not executed by July 1, 2006, the reporting program time schedule will remain six (6) months for all regions and agency size categories.

2. In the event that the Executive Director executes the MOA identified in note 1 by July 1, 2006, then the deadline for this task shall be extended by six (6) months. The time schedule identified in the MOA must be consistent with the extended time schedule provided by this note. If the MOA is not executed by July 1, 2006, the six (6) month time extension will not be granted.

E. WDRs and SSMP AVAILABILITY

1. A copy of the general WDRs and the certified SSMP shall be maintained at appropriate locations (such as the Enrollee's offices, facilities, and/or Internet homepage) and shall be available to sanitary sewer system operating and maintenance personnel at all times.

F. ENTRY AND INSPECTION

1. The Enrollee shall allow the State or Regional Water Boards or their authorized representative, upon presentation of credentials and other documents as may be required by law, to:

    a. Enter upon the Enrollee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;

    b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

d. Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

G. GENERAL MONITORING AND REPORTING REQUIREMENTS

1. The Enrollee shall furnish to the State or Regional Water Board, within a reasonable time, any information that the State or Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Enrollee shall also furnish to the Executive Director of the State Water Board or Executive Officer of the applicable Regional Water Board, upon request, copies of records required to be kept by this Order.

2. The Enrollee shall comply with the attached Monitoring and Reporting Program No. 2006-0003 and future revisions thereto, as specified by the Executive Director. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 2006-0003. Unless superseded by a specific enforcement Order for a specific Enrollee, these reporting requirements are intended to replace other mandatory routine written reports associated with SSOs.

3. All Enrollees must obtain SSO Database accounts and receive a “Username” and “Password” by registering through the California Integrated Water Quality System (CIWQS). These accounts will allow controlled and secure entry into the SSO Database. Additionally, within 30days of receiving an account and prior to recording spills into the SSO Database, all Enrollees must complete the “Collection System Questionnaire”, which collects pertinent information regarding a Enrollee’s collection system. The “Collection System Questionnaire” must be updated at least every 12 months.

4. Pursuant to Health and Safety Code section 5411.5, any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

   Any SSO greater than 1,000 gallons discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the Office of Emergency Services pursuant to California Water Code section 13271.

H. CHANGE IN OWNERSHIP

1. This Order is not transferable to any person or party, except after notice to the Executive Director. The Enrollee shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new Enrollee containing a specific date for the transfer of this Order's responsibility and coverage between the existing Enrollee and the new Enrollee. This agreement shall include an acknowledgement that the existing Enrollee is liable for violations up to the transfer date and that the new Enrollee is liable from the transfer date forward.

I. INCOMPLETE REPORTS

1. If an Enrollee becomes aware that it failed to submit any relevant facts in any report required under this Order, the Enrollee shall promptly submit such facts or information by formally amending the report in the Online SSO Database.

J. REPORT DECLARATION

1. All applications, reports, or information shall be signed and certified as follows:

    (i) All reports required by this Order and other information required by the State or Regional Water Board shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative of that person, as described in paragraph (ii) of this provision. (For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.)

    (ii) An individual is a duly authorized representative only if:

        (a) The authorization is made in writing by a person described in paragraph (i) of this provision; and

        (b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity.

K. CIVIL MONETARY REMEDIES FOR DISCHARGE VIOLATIONS

1. The California Water Code provides various enforcement options, including civil monetary remedies, for violations of this Order.

2. The California Water Code also provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or

falsifying any information provided in the technical or monitoring reports is subject to civil monetary penalties.

L. SEVERABILITY

1. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.

2. This order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the Enrollee from liability under federal, state or local laws, nor create a vested right for the Enrollee to continue the waste discharge.

CERTIFICATION

The undersigned Clerk to the State Water Board does hereby certify that the foregoing is a full, true, and correct copy of general WDRs duly and regularly adopted at a meeting of the State Water Resources Control Board held on May 2, 2006.

AYE: Tam M. Doduc
Gerald D. Secundy

NO: Arthur G. Baggett

ABSENT: None

ABSTAIN: None



Song Her
Clerk to the Board

STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (hereafter State Water Board) finds:

1. The State Water Board is authorized to prescribe statewide general Waste Discharge Requirements (WDRs) for categories of discharges that involve the same or similar operations and the same or similar types of waste pursuant to Water Code section 13263(i).

2. Water Code section 13193 *et seq.* requires the Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) to gather Sanitary Sewer Overflow (SSO) information and make this information available to the public, including but not limited to, SSO cause, estimated volume, location, date, time, duration, whether or not the SSO reached or may have reached waters of the state, response and corrective action taken, and an enrollee's contact information for each SSO event. An enrollee is defined as the public entity having legal authority over the operation and maintenance of, or capital improvements to, a sanitary sewer system greater than one mile in length.

3. Water Code section 13271, *et seq.* requires notification to the California Office of Emergency Services (Cal OES), formerly the California Emergency Management Agency, for certain unauthorized discharges, including SSOs.

4. On May 2, 2006, the State Water Board adopted Order 2006-0003-DWQ, "Statewide Waste Discharge Requirements for Sanitary Sewer Systems"[1] (hereafter SSS WDRs) to comply with Water Code section 13193 and to establish the framework for the statewide SSO Reduction Program.

5. Subsection G.2 of the SSS WDRs and the Monitoring and Reporting Program (MRP) provide that the Executive Director may modify the terms of the MRP at any time.

6. On February 20, 2008, the State Water Board Executive Director adopted a revised MRP for the SSS WDRs to rectify early notification deficiencies and ensure that first responders are notified in a timely manner of SSOs discharged into waters of the state.

7. When notified of an SSO that reaches a drainage channel or surface water of the state, Cal OES, pursuant to Water Code section 13271(a)(3), forwards the SSO notification information[2] to local government agencies and first responders including local public health officials and the applicable Regional Water Board. Receipt of notifications for a single SSO event from both the SSO reporter

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[1] Available for download at:
http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2006/wqo/wqo2006_0003.pdf

[2] Cal OES Hazardous Materials Spill Reports available Online at:
http://w3.calema.ca.gov/operational/malhaz.nsf/$defaultview and http://w3.calema.ca.gov/operational/malhaz.nsf

and Cal OES is duplicative. To address this, the SSO notification requirements added by the February 20, 2008 MRP revision are being removed in this MRP revision.

8. In the February 28, 2008 Memorandum of Agreement between the State Water Board and the California Water and Environment Association (CWEA), the State Water Board committed to re-designing the CIWQS[3] Online SSO Database to allow "event" based SSO reporting versus the original "location" based reporting. Revisions to this MRP and accompanying changes to the CIWQS Online SSO Database will implement this change by allowing for multiple SSO appearance points to be associated with each SSO event caused by a single asset failure.

9. Based on stakeholder input and Water Board staff experience implementing the SSO Reduction Program, SSO categories have been revised in this MRP. In the prior version of the MRP, SSOs have been categorized as Category 1 or Category 2. This MRP implements changes to SSO categories by adding a Category 3 SSO type. This change will improve data management to further assist Water Board staff with evaluation of high threat and low threat SSOs by placing them in unique categories (i.e., Category 1 and Category 3, respectively). This change will also assist enrollees in identifying SSOs that require Cal OES notification.

10. Based on over six years of implementation of the SSS WDRs, the State Water Board concludes that the February 20, 2008 MRP must be updated to better advance the SSO Reduction Program[4] objectives, assess compliance, and enforce the requirements of the SSS WDRs.

IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Water Code section 13267(f), Resolution 2002-0104, and Order 2006-0003-DWQ, the MRP for the SSS WDRs (Order 2006-0003-DWQ) is hereby amended as shown in Attachment A and shall be effective on 07/26/2013.

7/30/13
Date

Thomas Howard
Executive Director

[3] California Integrated Water Quality System (CIWQS) publicly available at http://www.waterboards.ca.gov/ciwqs/publicreports.shtml

[4] Statewide Sanitary Sewer Overflow Reduction Program information is available at: http://www.waterboards.ca.gov/water_issues/programs/sso/

ATTACHMENT A

STATE WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order 2006-0003-DWQ, "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SSS WDRs). This MRP shall be effective from September 9, 2013 until it is rescinded. The Executive Director may make revisions to this MRP at any time. These revisions may include a reduction or increase in the monitoring and reporting requirements. All site specific records and data developed pursuant to the SSS WDRs and this MRP shall be complete, accurate, and justified by evidence maintained by the enrollee. Failure to comply with this MRP may subject an enrollee to civil liabilities of up to $5,000 a day per violation pursuant to Water Code section 13350; up to $1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. The State Water Resources Control Board (State Water Board) reserves the right to take any further enforcement action authorized by law.

A. SUMMARY OF MRP REQUIREMENTS

Table 1 – Spill Categories and Definitions

CATEGORIES	DEFINITIONS [see Section A on page 5 of Order 2006-0003-DWQ, for Sanitary Sewer Overflow (SSO) definition]
CATEGORY 1	Discharges of untreated or partially treated wastewater of **any volume** resulting from an enrollee's sanitary sewer system failure or flow condition that: • Reach surface water and/or reach a drainage channel tributary to a surface water; or • Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
CATEGORY 2	Discharges of untreated or partially treated wastewater of **1,000 gallons or greater** resulting from an enrollee's sanitary sewer system failure or flow condition that **do not** reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION (see section B of MRP)	• Within two hours of becoming aware of any Category 1 SSO **greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water**, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.	Call Cal OES at: **(800) 852-7550**
REPORTING (see section C of MRP)	• Category 1 SSO: Submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. • Category 2 SSO: Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date. • Category 3 SSO: Submit certified report within 30 calendar days of the end of month in which SSO the occurred. • SSO Technical Report: Submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. • "No Spill" Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. • Collection System Questionnaire: Update and certify every 12 months.	Enter data into the CIWQS Online SSO Database (http://ciwqs.waterboards.ca.gov/), certified by enrollee's Legally Responsible Official(s).
WATER QUALITY MONITORING (see section D of MRP)	• Conduct water quality sampling **within 48 hours** after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.	Water quality results are required to be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING (see section E of MRP)	• SSO event records. • Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. • Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. • Collection system telemetry records if relied upon to document and/or estimate SSO Volume.	Self-maintained records shall be available during inspections or upon request.

B. NOTIFICATION REQUIREMENTS

Although Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) staff do not have duties as first responders, this MRP is an appropriate mechanism to ensure that the agencies that have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any Category 1 SSO greater than or equal to 1,000 gallons that results in a discharge to a surface water or spilled in a location where it probably will be discharged to surface water, either directly or by way of a drainage channel or MS4, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the Cal OES and obtain a notification control number.

2. To satisfy notification requirements for each applicable SSO, the enrollee shall provide the information requested by Cal OES before receiving a control number. Spill information requested by Cal OES may include:

   i. Name of person notifying Cal OES and direct return phone number.
   ii. Estimated SSO volume discharged (gallons).
   iii. If ongoing, estimated SSO discharge rate (gallons per minute).
   iv. SSO Incident Description:
      a. Brief narrative.
      b. On-scene point of contact for additional information (name and cell phone number).
      c. Date and time enrollee became aware of the SSO.
      d. Name of sanitary sewer system agency causing the SSO.
      e. SSO cause (if known).
   v. Indication of whether the SSO has been contained.
   vi. Indication of whether surface water is impacted.
   vii. Name of surface water impacted by the SSO, if applicable.
   viii. Indication of whether a drinking water supply is or may be impacted by the SSO.
   ix. Any other known SSO impacts.
   x. SSO incident location (address, city, state, and zip code).

3. Following the initial notification to Cal OES and until such time that an enrollee certifies the SSO report in the CIWQS Online SSO Database, the enrollee shall provide updates to Cal OES regarding substantial changes to the estimated volume of untreated or partially treated sewage discharged and any substantial change(s) to known impact(s).

4. PLSDs: The enrollee is strongly encouraged to notify Cal OES of discharges greater than or equal to 1,000 gallons of untreated or partially treated wastewater that result or may result in a discharge to surface water resulting from failures or flow conditions within a privately owned sewer lateral or from other private sewer asset(s) if the enrollee becomes aware of the PLSD.

C. REPORTING REQUIREMENTS

1. **CIWQS Online SSO Database Account:** All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS. These accounts allow controlled and secure entry into the CIWQS Online SSO Database.

2. **SSO Mandatory Reporting Information:** For reporting purposes, if one SSO event results in multiple appearance points in a sewer system asset, the enrollee shall complete one SSO report in the CIWQS Online SSO Database which includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO, and provide descriptions of the locations of all other discharge points associated with the SSO event.

3. **SSO Categories**

   i. **Category 1** – Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:

      a. Reach surface water and/or reach a drainage channel tributary to a surface water; or

      b. Reach a MS4 and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

   ii. **Category 2** – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from an enrollee's sanitary sewer system failure or flow condition that does not reach a surface water, a drainage channel, or the MS4 unless the entire SSO volume discharged to the storm drain system is fully recovered and disposed of properly.

   iii. **Category 3** – All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.

4. **Sanitary Sewer Overflow Reporting to CIWQS - Timeframes**

   i. **Category 1 and Category 2 SSOs** – All SSOs that meet the above criteria for Category 1 or Category 2 SSOs shall be reported to the CIWQS Online SSO Database:

      a. Draft reports for Category 1 and Category 2 SSOs shall be submitted to the CIWQS Online SSO Database within three (3) business days of the enrollee becoming aware of the SSO. Minimum information that shall be reported in a draft Category 1 SSO report shall include all information identified in section 8.i.a. below. Minimum information that shall be reported in a Category 2 SSO draft report shall include all information identified in section 8.i.c below.

      b. A final Category 1 or Category 2 SSO report shall be certified through the CIWQS Online SSO Database within 15 calendar days of the end date of the SSO. Minimum information that shall be certified in the final Category 1 SSO report shall include all information identified in section 8.i.b below. Minimum information that shall be certified in a final Category 2 SSO report shall include all information identified in section 8.i.d below.

ii. **Category 3 SSOs** – All SSOs that meet the above criteria for Category 3 SSOs shall be reported to the CIWQS Online SSO Database and certified within 30 calendar days after the end of the calendar month in which the SSO occurs (e.g., all Category 3 SSOs occurring in the month of February shall be entered into the database and certified by March 30). Minimum information that shall be certified in a final Category 3 SSO report shall include all information identified in section 8.i.e below.

iii. **"No Spill" Certification** – If there are no SSOs during the calendar month, the enrollee shall either 1) certify, within 30 calendar days after the end of each calendar month, a "No Spill" certification statement in the CIWQS Online SSO Database certifying that there were no SSOs for the designated month, or 2) certify, quarterly within 30 calendar days after the end of each quarter, "No Spill" certification statements in the CIWQS Online SSO Database certifying that there were no SSOs for each month in the quarter being reported on. For quarterly reporting, the quarters are Q1 - January/ February/ March, Q2 - April/May/June, Q3 - July/August/September, and Q4 - October/November/December.

If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee shall still certify a "No Spill" certification statement for that month.

iv. **Amended SSO Reports** – The enrollee may update or add additional information to a certified SSO report within 120 calendar days after the SSO end date by amending the report or by adding an attachment to the SSO report in the CIWQS Online SSO Database. SSO reports certified in the CIWQS Online SSO Database prior to the adoption date of this MRP may only be amended up to 120 days after the effective date of this MRP. After 120 days, the enrollee may contact the SSO Program Manager to request to amend an SSO report if the enrollee also submits justification for why the additional information was not available prior to the end of the 120 days.

5. **SSO Technical Report**

The enrollee shall submit an SSO Technical Report in the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

i. **Causes and Circumstances of the SSO:**

a. Complete and detailed explanation of how and when the SSO was discovered.

b. Diagram showing the SSO failure point, appearance point(s), and final destination(s).

c. Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.

d. Detailed description of the cause(s) of the SSO.

e. Copies of original field crew records used to document the SSO.

f. Historical maintenance records for the failure location.

ii. **Enrollee's Response to SSO:**

a. Chronological narrative description of all actions taken by enrollee to terminate the spill.

b. Explanation of how the SSMP Overflow Emergency Response plan was implemented to respond to and mitigate the SSO.

c. Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

iii. **Water Quality Monitoring:**

a. Description of all water quality sampling activities conducted including analytical results and evaluation of the results.

b. Detailed location map illustrating all water quality sampling points.

6. **PLSDs**

Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sanitary sewer system assets may be voluntarily reported to the CIWQS Online SSO Database.

i. The enrollee is also encouraged to provide notification to Cal OES per section B above when a PLSD greater than or equal to 1,000 gallons has or may result in a discharge to surface water. For any PLSD greater than or equal to 1,000 gallons regardless of the spill destination, the enrollee is also encouraged to file a spill report as required by Health and Safety Code section 5410 et. seq. and Water Code section 13271, or notify the responsible party that notification and reporting should be completed as specified above and required by State law.

ii. If a PLSD is recorded in the CIWQS Online SSO Database, the enrollee must identify the sewage discharge as occurring and caused by a private sanitary sewer system asset and should identify a responsible party (other than the enrollee), if known. Certification of PLSD reports by enrollees is not required.

7. **CIWQS Online SSO Database Unavailability**

In the event that the CIWQS Online SSO Database is not available, the enrollee must fax or e-mail all required information to the appropriate Regional Water Board office in accordance with the time schedules identified herein. In such event, the enrollee must also enter all required information into the CIWQS Online SSO Database when the database becomes available.

8. **Mandatory Information to be Included in CIWQS Online SSO Reporting**

All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS which can be reached at CIWQS@waterboards.ca.gov or by calling (866) 792-4977, M-F, 8 A.M. to 5 P.M. These accounts will allow controlled and secure entry into the CIWQS Online SSO Database. Additionally, within thirty (30) days of initial enrollment and prior to recording SSOs into the CIWQS Online SSO Database, all enrollees must complete a Collection System Questionnaire (Questionnaire). The Questionnaire shall be updated at least once every 12 months.

i. **SSO Reports**

At a minimum, the following mandatory information shall be reported prior to finalizing and certifying an SSO report for each category of SSO:

a. **Draft Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 1 SSO report:

1. SSO Contact Information: Name and telephone number of enrollee contact person who can answer specific questions about the SSO being reported.
2. SSO Location Name.
3. Location of the overflow event (SSO) by entering GPS coordinates. If a single overflow event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the SSO appearance point explanation field.
4. Whether or not the SSO reached surface water, a drainage channel, or entered and was discharged from a drainage structure.
5. Whether or not the SSO reached a municipal separate storm drain system.
6. Whether or not the total SSO volume that reached a municipal separate storm drain system was fully recovered.
7. Estimate of the SSO volume, inclusive of all discharge point(s).
8. Estimate of the SSO volume that reached surface water, a drainage channel, or was not recovered from a storm drain.
9. Estimate of the SSO volume recovered (if applicable).
10. Number of SSO appearance point(s).
11. Description and location of SSO appearance point(s). If a single sanitary sewer system failure results in multiple SSO appearance points, each appearance point must be described.
12. SSO start date and time.
13. Date and time the enrollee was notified of, or self-discovered, the SSO.
14. Estimated operator arrival time.
15. For spills greater than or equal to 1,000 gallons, the date and time Cal OES was called.
16. For spills greater than or equal to 1,000 gallons, the Cal OES control number.

b. **Certified Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 1 SSO report, in addition to all fields in section 8.i.a :

1. Description of SSO destination(s).
2. SSO end date and time.
3. SSO causes (mainline blockage, roots, etc.).
4. SSO failure point (main, lateral, etc.).
5. Whether or not the spill was associated with a storm event.
6. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the overflow; and a schedule of major milestones for those steps.
7. Description of spill response activities.
8. Spill response completion date.
9. Whether or not there is an ongoing investigation, the reasons for the investigation and the expected date of completion.

10. Whether or not a beach closure occurred or may have occurred as a result of the SSO.
11. Whether or not health warnings were posted as a result of the SSO.
12. Name of beach(es) closed and/or impacted. If no beach was impacted, NA shall be selected.
13. Name of surface water(s) impacted.
14. If water quality samples were collected, identify parameters the water quality samples were analyzed for. If no samples were taken, NA shall be selected.
15. If water quality samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA shall be selected.
16. Description of methodology(ies) and type of data relied upon for estimations of the SSO volume discharged and recovered.
17. SSO Certification: Upon SSO Certification, the CIWQS Online SSO Database will issue a final SSO identification (ID) number.

c. **Draft Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 2 SSO report:

    1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO.

d. **Certified Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 2 SSO report:

    1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-9, and 17 in section 8.i.b above for Certified Category 1 SSO.

e. **Certified Category 3 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 3 SSO report:

    1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-6, and 17 in section 8.i.b above for Certified Category 1 SSO.

ii. **Reporting SSOs to Other Regulatory Agencies**

These reporting requirements do not preclude an enrollee from reporting SSOs to other regulatory agencies pursuant to state law. In addition, these reporting requirements do not replace other Regional Water Board notification and reporting requirements for SSOs.

iii. **Collection System Questionnaire**

The required Questionnaire (see subsection G of the SSS WDRs) provides the Water Boards with site-specific information related to the enrollee's sanitary sewer system. The enrollee shall complete and certify the Questionnaire at least every 12 months to facilitate program implementation, compliance assessment, and enforcement response.

iv. **SSMP Availability**

The enrollee shall provide the publicly available internet web site address to the CIWQS Online SSO Database where a downloadable copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP is posted. If all of the SSMP documentation listed in this subsection is not publicly available on the Internet, the enrollee shall comply with the following procedure:

a. Submit an **electronic** copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP to the State Water Board, within 30 days of that approval and within 30 days of any subsequent SSMP re-certifications, to the following mailing address:

State Water Resources Control Board
Division of Water Quality
Attn: SSO Program Manager
1001 I Street, 15th Floor, Sacramento, CA 95814

D. WATER QUALITY MONITORING REQUIREMENTS:

To comply with subsection D.7(v) of the SSS WDRs, the enrollee shall develop and implement an SSO Water Quality Monitoring Program to assess impacts from SSOs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSO Water Quality Monitoring Program, shall, at a minimum:

1. Contain protocols for water quality monitoring.

2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).

3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.

4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.

5. Within 48 hours of the enrollee becoming aware of the SSO, require water quality sampling for, at a minimum, the following constituents:
   i. Ammonia
   ii. Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and e-coli.

E. RECORD KEEPING REQUIREMENTS:

The following records shall be maintained by the enrollee for a minimum of five (5) years and shall be made available for review by the Water Boards during an onsite inspection or through an information request:

1. General Records: The enrollee shall maintain records to document compliance with all provisions of the SSS WDRs and this MRP for each sanitary sewer system owned including any required records generated by an enrollee's sanitary sewer system contractor(s).

2. SSO Records: The enrollee shall maintain records for each SSO event, including but not limited to:
   i. Complaint records documenting how the enrollee responded to all notifications of possible or actual SSOs, both during and after business hours, including complaints that do not

result in SSOs. Each complaint record shall, at a minimum, include the following information:

a. Date, time, and method of notification.

b. Date and time the complainant or informant first noticed the SSO.

c. Narrative description of the complaint, including any information the caller can provide regarding whether or not the complainant or informant reporting the potential SSO knows if the SSO has reached surface waters, drainage channels or storm drains.

d. Follow-up return contact information for complainant or informant for each complaint received, if not reported anonymously.

e. Final resolution of the complaint.

ii. Records documenting steps and/or remedial actions undertaken by enrollee, using all available information, to comply with section D.7 of the SSS WDRs.

iii. Records documenting how all estimate(s) of volume(s) discharged and, if applicable, volume(s) recovered were calculated.

3. Records documenting all changes made to the SSMP since its last certification indicating when a subsection(s) of the SSMP was changed and/or updated and who authorized the change or update. These records shall be attached to the SSMP.

4. Electronic monitoring records relied upon for documenting SSO events and/or estimating the SSO volume discharged, including, but not limited to records from:

i. Supervisory Control and Data Acquisition (SCADA) systems

ii. Alarm system(s)

iii. Flow monitoring device(s) or other instrument(s) used to estimate wastewater levels, flow rates and/or volumes.

F. CERTIFICATION

1. All information required to be reported into the CIWQS Online SSO Database shall be certified by a person designated as described in subsection J of the SSS WDRs. This designated person is also known as a Legally Responsible Official (LRO). An enrollee may have more than one LRO.

2. Any designated person (i.e. an LRO) shall be registered with the State Water Board to certify reports in accordance with the CIWQS protocols for reporting.

3. Data Submitter (DS): Any enrollee employee or contractor may enter draft data into the CIWQS Online SSO Database on behalf of the enrollee if authorized by the LRO and registered with the State Water Board. However, only LROs may certify reports in CIWQS.

4. The enrollee shall maintain continuous coverage by an LRO. Any change of a registered LRO or DS (e.g., retired staff), including deactivation or a change to the LRO's or DS's contact information, shall be submitted by the enrollee to the State Water Board within 30 days of the change by calling (866) 792-4977 or e-mailing help@ciwqs.waterboards.ca.gov.

5. A registered designated person (i.e., an LRO) shall certify all required reports under penalty of perjury laws of the state as stated in the CIWQS Online SSO Database at the time of certification.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Resources Control Board.

7/30/13
Date

Jeanine Townsend
Clerk to the Board

SETTLEMENT AGREEMENT AND MUTUAL RELEASE OF CLAIMS

This Settlement Agreement and Mutual Release of Claims ("Agreement") is entered into between California River Watch, a nonprofit, public benefit corporation, on behalf of itself and its members ("River Watch") and the Town of Windsor, a municipality organized under the laws of the State of California ("Windsor"), (collectively the "Parties") as of the last date executed below (the "Effective Date"), with respect to the following facts and objectives.

RECITALS

Windsor owns and operates the Windsor Wastewater Treatment, Reclamation and Disposal Facility located at 8400 Windsor Road in Windsor, California ("Facility") and an associated sanitary sewer collection that services approximately 26,500 residential, commercial and industrial users. The Facility provides tertiary treatment of wastewater collected from its service area and discharges to Mark West Creek, a tributary of the Russian River. In addition, recycled water is discharged from the Facility to 33 sites in the Town of Windsor and Sonoma County.

Windsor operates the Facility in compliance with the Federal Water Pollution Control Act ("Clean Water Act"), 33 U.S.C. § 1251 *et seq*., and the Porter-Cologne Water Quality Control Act, California Water Code § 13000 *et seq*. Windsor has been enrolled under the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems ("WDR"), State Water Resources Control Board Order No. 2006-003-DWQ since the WDR's adoption in May 2006. Windsor is also permitted under Waste Discharge Requirements Order No. R1-2013-0042, for the Town of Windsor Wastewater Treatment, Reclamation and Disposal Facility, NPDES Permit No. CA0023345.

On April 12, 2013 River Watch served Windsor with a Notice of Violations and Intent to File Suit ("60-Day Notice") under Clean Water Act § 505, 33 U.S.C. § 1365, with regard to alleged violations of the Clean Water Act associated with Windsor's operation of the Facility and collection system. Windsor denies any and all of River Watch's allegations and claims in the 60-Day Notice. A copy of the 60-Day Notice is attached to this Agreement as Exhibit A.

On June 11, 2013, counsel for the Parties met to discuss the allegations and claims set forth in the 60-Day Notice. The Parties, through counsel, engaged in negotiations thereafter which subsequently lead to resolution of all claims and disputes made by River Watch as set forth in the 60-Day Notice.

Without either adjudication of River Watch's claims, as set forth in the 60-Day Notice or admission by Windsor of any alleged violation or other wrong doing, the Parties agree that it is in their mutual interest to enter into this Agreement setting forth the terms and conditions appropriate to resolving the claims that were asserted in the 60-Day Notice.

In mutual consideration for the resolution of these claims, the Parties agree to the following:

TERMS OF SETTLEMENT

I. DEFINITIONS

A. Collection System: Any public system of pipes, pump stations, sewer lines, or other conveyances owned by Windsor and located within Windsor's boundary that are used to collect and convey wastewater to the Facility. For the purposes of this Agreement, the Collection System consists of gravity mains, force mains, and pump stations, and does not include private laterals or other private conveyances.

B. Condition Assessment: A report that comprises inspection, rating, and evaluation of the existing condition of the Collection System. Inspection is based on closed circuit television ("CCTV") inspections for gravity mains and inspections of pipe connections at the manhole. After CCTV inspection occurs, pipe segments are assigned a grade based on the Pipeline Assessment and Certification Program ("PACP") rating system, developed by the National Association of Sewer Service Companies.

C. Full Condition Assessment: A Condition Assessment of all sewer gravity mains in the Collection System with the exception of sewer lines located within two hundred (200) feet of Windsor Surface Waters, as defined below in Section 1.E.

D. Rehabilitate or Rehabilitation: The replacement or lining of a defective pipeline segment.

E. Surface Water Condition Assessment: A Condition Assessment of sewer gravity mains in the Collection System located within two hundred (200) feet of the following surface waters: Windsor Creek, East Windsor Creek, Starr Creek, and Pruitt Creek, (collectively "Windsor Surface Waters") excluding any manmade storm drains, gutters and canals.

F. Significantly Defective: A sewer pipe segment is considered to be "significantly defective" if the pipe's structural condition receives a grade of 5 based on the PACP rating system. PACP assigns grades based on the significance of the defect, extent of damage, percentage of flow capacity restriction, and/or the amount of pipe wall loss due to

deterioration. Grades are assigned as follows:

5 – Most significant defect
4 – Significant defect
3 – Moderate defect
2 – Minor to moderate defect
1 – Minor defect

II. REMEDIAL MEASURES

A. Sewer System Investigation and Repair

1. Update Sewer System Management Plan

Within one (1) year from the Effective Date of this Agreement, Windsor shall update its Sewer System Management plan ("SSMP") to include a section identifying the factors to be considered in prioritizing sewer main segment repair, maintenance, Rehabilitation and replacement. Windsor agrees to assign a higher priority to sewer lines within two hundred (200) feet of Windsor Surface Waters. Prior to formally adopting the updated SSMP, Windsor shall submit the SSMP section identifying the factors to be considered in prioritizing sewer main segment repair to River Watch for review and comment, concurrently with the routine public comment procedures undertaken by the Town.

2. Surface Water Condition Assessment

a. Within three (3) years from the Effective Date of this Agreement, Windsor shall complete a Surface Water Condition Assessment of all sewer main segments that have not been CCTV'd or repaired within ten (10) years prior to the Effective Date of this Agreement, or newly installed or rehabilitated within twenty (20) years prior to the Effective Date of this Agreement.

b. Within two (2) years of determination that a sewer main segment is Significantly Defective (PACP 5), Windsor shall repair the defect; Rehabilitate or replace the sewer main; or for segments that are Significantly Defective but immediate failure is not likely, perform any other necessary maintenance of the defect or sewer main segment and re-CCTV the sewer main segment within one (1) year, as needed.

c. With respect to sewer main defects rated PACP 4, Windsor will ascertain whether the defects require repair, Rehabilitation, increased maintenance or need to be re-CCTV'd within a time certain.

3. Full Condition Assessment

a. Within ten (10) years from the Effective Date of this Agreement, Windsor shall complete a Condition Assessment of all remaining sewer main segments in Windsor's Collection System that have not been CCTV'd or repaired within ten (10) years prior to the Effective Date of this Agreement, or newly installed or Rehabilitated within twenty (20) years prior to the Effective Date of this Agreement.

b. Windsor shall update its SSMP to provide for the Condition Assessment of all sewer mains in Windsor's Collection System on a ten (10)-year cycle.

B. Sewer System Overflow Response

1. Within one (1) year from the Effective Date of this Agreement, Windsor shall modify its Sanitary Sewer Overflow ("SSO") report form to require the following additional information used to estimate spill volume:

a. The method or calculations used estimating total spill volume, spill volume reaching surface waters and spill volume recovered;

b. For Category 1 spills, a listing of nearby residents or business operators contacted to attempt to establish the SSO's start time, duration, and flow rate;

c. Photographs of the manhole flow at the SSO site and the San Diego Method array, if applicable to the SSO; or, other photographic evidence that may aid in establishing the spill volume.

2. Within one (1) year of the Effective Date of this Agreement, Windsor shall require water quality sampling and testing whenever it is estimated that an SSO of fifty (50) gallons or more enters surface waters. Windsor shall collect and test samples from three (3) locations, if feasible: the point of discharge, upstream of the point of discharge, and downstream of the point of discharge. Constituents tested for shall include ammonia, fecal coliform, E. coli, dissolved oxygen, and BOD. Feasibility for obtaining a sample will involve whether sufficient flow exists to collect a representative, uncontaminated sample, and whether weather or other conditions allow Windsor staff to safely obtain a sample (*i.e.* Windsor staff will not be placed at risk for injury in severe weather). If Windsor alleges that it is not feasible to collect such samples, Windsor shall include an explanation of infeasibility.

a. Any requirements under this provision which conflict with sampling

or testing requirements by a regulatory agency (e.g. the sampling location, frequency, parameters analyzed, etc.), either currently in effect or adopted in the future, shall cease to be in effect under this Agreement between the Parties. The absence of sampling or testing requirements by a regulatory agency shall not be considered a conflict with regulatory agency requirements.

b. If any of said constituents are found at higher levels in the point of discharge sample and the downstream sample than in the upstream sample, Windsor shall determine and address the cause of the SSO and employ the following measures to prevent future overflows: (i) within one (1) week of receiving the test results, repair, Rehabilitate, or replace the defect if structural defects in that pipe segment caused the overflow; or (ii) if the defect is non-structural, such as a grease blockage, then perform the necessary maintenance or cleaning to address the cause.

C. Lateral Inspection/Repair Program

Within one (1) year from the Effective Date of this Agreement, Windsor staff shall develop and present for consideration by the Town Council of the Town of Windsor, a mandatory private sewer lateral inspection and repair program for property owners located in the sub-basins labeled "North A" and "Bell Village A" as show in Figure 7 from the September 2011 Winzler & Kelly *Collection System Infiltration and Inflow Study*, attached hereto as Exhibit B, triggered by any of the following events:

1. Transfer of ownership of the property if no inspection/replacement of the sewer lateral occurred within twenty (20) years prior to the transfer;

2. The occurrence of two (2) or more SSOs caused by the private sewer lateral within two (2) years;

3. A change of the use of the structure served (a) from residential to non-residential use, (b) to a non-residential use that will result in a higher flow than the current non-residential use, and (c) to non-residential uses where the structure served has been vacant or unoccupied for more than three (3) years;

4. Upon replacement or repair of any part of the sewer lateral (not including complete replacement);

5. Upon issuance of a building permit with a valuation of $50,000.00 or more;

6. Upon significant repair or replacement of the main sewer line to which the lateral is attached.

D. Private Lateral Replacement Fund Program

1. If a mandatory private sewer lateral inspection and repair program is not approved by the Town Council, Windsor shall set up a grant and/or revolving loan program to provide partial loans for the replacement or repair of private sewer laterals including installation of property line cleanouts, for eligible property owners located in the sub-basins labeled "North A" and "Bell Village A" as show in Figure 7 from the September 2011 *Collection System Infiltration and Inflow Study*, prepared by Winzler & Kelly, attached hereto as Exhibit B (hereinafter the "Program").

a. Windsor shall invest the sum of thirty thousand dollars ($30,000.00) into the Program.

b. The Program shall provide a grant or low interest loan to eligible property owners in an amount not to exceed two thousand five hundred dollars ($2,500.00) for each eligible private sewer lateral that requires repair or replacement, and/or property line cleanout installation.

i. A property owner shall be considered eligible for the Program if Windsor determines that the private sewer lateral is failing, and/or that the property does not have a property line cleanout, and the repair or replacement and/or installation can be completed within one hundred twenty (120) days of the application for the loan.

ii. If a property line cleanout is installed, installation must be performed in accordance with Windsor's Standard Cleanout Detail.

c. Windsor shall set the interest rate, financing terms, financing amounts, and terms of repayment for the Program.

d. Windsor shall publicize, advertise, and otherwise promote the availability of the Program to property owners within its Collection System, and shall set forth procedures for eligible property owners to apply for the Program.

2. To encourage the repair and/or replacement of private laterals, Windsor shall in good faith attempt to negotiate group rates for cleanout installation and private lateral repair in conjunction with repair or replacement of the main sewer line to which a group of private laterals are attached. Windsor shall publicize, advertise, and otherwise promote the group rate.

E. Water Balance Analysis for High Flow Equalization Ponds

1. Windsor shall perform a water balance analysis for its high flow equalization Ponds 1 and 2, located at the north end of the Facility. The water balance analysis will account for the volume of partially treated or untreated wastewater entering Ponds 1 and 2 during high influent flow events that can occur during wet weather periods, and the volume of such wastewater removed from Ponds 1 and 2 for treatment at the Facility. The water balance analysis will also consider the influence of precipitation and evaporation on wastewater volume. Windsor shall conduct this water balance analysis during two rainy seasons: October 15, 2014 – April 15, 2015; and October 15, 2015 – April 15, 2016. Windsor shall provide River Watch with the results of the water balance analyses for the two-season period by May 15, 2016.

2. As an attachment to its first two (2) Annual Summaries as required by Section II.G.1, Windsor shall provide to River Watch, in the format of an excel spreadsheet, information regarding the average monthly inflow at the headwords of the Facility and the average monthly discharge from the Facility, to waters of the United States during the discharge season, and to reclamation facilities during the non-discharge season.

F. Surface Water Monitoring

1. Within thirty (30) calendar days after the Effective Date of this Agreement, Windsor shall pay River Watch the sum of eleven thousand six hundred dollars ($11,600.00) to cover River Watch's costs of sampling and analyzing surface water in the vicinity of Windsor's Facility. Payment shall be made to River Watch in the form of a single check payable to "Northern California River Watch."

a. To the extent River Watch needs access across Windsor's Facility to reach its surface water monitoring locations, Windsor shall provide reasonable accommodation for such access, for up to eight (8) quarterly sampling events. Such accommodation will be provided upon three (3) business days' written notice providing the following information: date and time of sampling event; location(s) of sampling; number of people requiring access; and estimated length of visit.

b. River Watch shall provide Windsor with a copy of any analytical results within one (1) week of receiving such results, along with field logs and chains of custody, if any.

G. Task Confirmation

1. Twelve (12) months from the Effective Date of this Agreement, and then on

May 1 each year thereafter until the Termination Date, Windsor shall provide River Watch an annual summary of Windsor's progress towards completion of the Remedial Measures set forth in Section II. A, B, C or D, E, and F of this Agreement ("Annual Summaries"), as well as a copy of any bi-annual SSMP Audit Report ("Reports") completed by the Town.

2. Completion of all Remedial Measures set forth Section II. A, B, C or D, E, and F of this Agreement shall constitute completion of all obligations set forth in this Agreement, and Windsor shall cease providing annual copies of the above-mentioned Annual Summaries and Reports to River Watch at that time.

III. TERM OF AGREEMENT

This Agreement shall terminate ten (10) years from the Effective Date, or upon completion of all tasks set forth in this Agreement as indicated in Section II.E.2 above, whichever occurs sooner. If Windsor requests early termination, Windsor shall provide River Watch with written notice of its request, and River Watch shall respond in writing to Windsor's request within thirty (30) business days.

IV. ATTORNEY'S COSTS AND FEES

Within thirty (30) calendar days after the Effective Date of this Agreement, Windsor shall pay River Watch the sum of forty-five thousand dollars ($45,000.00) as reimbursement for River Watch's investigative and attorneys' fees and costs. Payment shall be made by Windsor to River Watch in the form of a single check payable to "Northern California River Watch," and shall, together with the payment described above in Section II.F.1, constitute full and complete satisfaction of any and all claims by River Watch for attorneys' fees and costs in connection with this matter up to and including the Effective Date of the Agreement, and for attorneys' fees and costs incurred for monitoring and enforcing the District's compliance with the Agreement, with the exception of any action taken to enforce this Agreement by way of arbitration.

V. NO ADMISSION OR FINDING

Neither this Agreement nor any payment pursuant to this Agreement shall constitute evidence or be construed as a finding, adjudication, or acknowledgement of any fact, law, or liability, nor shall it be construed as an admission of violation of any law, rule, or regulation. However, this Agreement and/or any payment pursuant to the Agreement may constitute evidence in actions seeking compliance with this Agreement.

VI. RELEASE OF LIABILITY

A. Upon the Effective Date of this Agreement, River Watch, on behalf of itself, its officers, members, agents, successors and assigns, and any other person acting under its direction and control with respect to this Agreement, agrees that it releases, acquits and forever discharges Windsor, its elected and appointed officials, officers, employees, agents, attorneys, legal successors and assigns, and any other persons acting on Windsor's behalf, from all Clean Water Act claims and demands, actions, causes of action, obligations, except for obligations under this Agreement, liabilities, indebtedness, breach of duty, claims for injunctive relief and other equitable relief, suits, liens, damages, losses, costs or expenses, including attorneys' fees, except for costs and fees pursuant to Section IV above, known or unknown, fixed or contingent, liquidated or unliquidated, suspected or unsuspected, foreseen or unforeseen related to Windsor's wastewater collection, treatment, reclamation, or disposal activities, including without limitation any and all claims for violations of the Clean Water Act, the Porter Cologne Water Quality Control Act, or any other federal or state law, or of any local law, ordinance or regulation governing Windsor's wastewater collection, treatment, reclamation, or disposal activities, which occurred at any time up to and including the Effective Date of this Agreement.

B. The Parties acknowledge that they are familiar with section 1542 of the California Civil Code. Each party expressly waives and relinquishes any rights and benefits which they have or may have under section 1542 of the Civil Code of the State of California, which provides:

> *A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release which if known by him or her must have materially affected his or her settlement with the debtor.*

The Parties acknowledge that each has specifically reviewed with its attorney the meaning and effect of the release set forth herein, the language of California Civil Code section 1542, and the waiver contained herein. The Parties acknowledge that their attorneys have fully explained the impact of these provisions, and the Parties knowingly accept the risks associated with these provisions.

VII. COVENANT NOT TO SUE

For a period of five (5) years commencing upon the Effective Date of this Agreement, CRW agrees that neither CRW, its officers, executive staff, members of its governing board, nor any organization under the control of CRW, its officers, executive staff, or members of its governing board, will serve any 60-day Notice of Violations and

Intent to Sue or file any lawsuit against Windsor seeking relief for alleged violations of the Clean Water Act (33 U.S.C. § 1251 *et seq.*) or RCRA (42 U.S.C. §6901 *et seq.*), or any similar state statutes and/or regulations, including the Porter Cologne Water Quality Control Act (Cal. Water Code, § 13000 *et seq.*), related to Windsor's wastewater collection, treatment, reclamation, or disposal activities, nor will CRW initiate or support such lawsuits against Windsor brought by other groups or individuals by providing financial assistance, personnel time, or any other affirmative actions. River Watch further agrees that if it files any lawsuit against Windsor after the five (5)-year nonsuit period, River Watch will not seek any relief that is currently being performed under this Agreement.

VIII. DISPUTE RESOLUTION PROCEDURES

A. Any disputes with respect to any of the provisions of this Agreement, except Section IV. Attorney's Costs and Fees, shall be resolved through the following procedure:

The Parties covenant and agree that, if either party believes the other is in violation of one or more terms of this Agreement, that party shall provide notice to the other in writing of what actions or inactions they deem to be in violation of this Agreement. Within thirty (30) days of receipt of such notice, the party receiving the notice shall respond to the notice in writing. If the Parties still dispute compliance with this Agreement, within an additional thirty (30) days, the Parties will meet and confer in a good faith attempt to resolve their dispute. If the Parties cannot informally resolve the dispute, they will enter into binding arbitration, conducted by an arbitrator agreed upon by the Parties. Either party may request that the presiding judge of the Sonoma County Superior Court may select an arbitrator if the Parties cannot reach an agreement. The arbitration shall be binding and not subject to ordinary judicial appeal; however, it shall be subject to the procedural provisions provided for under California Code of Civil Procedure § 1280, *et seq*. The arbitration shall be conducted in accordance with the arbitration rules and procedures of JAMS (Judicial Arbitration and Mediation Service) to the extent other conventional rules are not promptly agreed to by the Parties. The relief the arbitrator is empowered to award is limited to injunctive relief to take action specified in this Agreement, and the arbitrator shall be empowered to determine a prevailing party and may award payment of reasonable attorneys' fees and costs to a prevailing party. To the extent there are multiple issues with a different prevailing party, the arbitrator may take those facts into account in terms of an award for fees and costs, and can order each party to bear their own costs.

B. If River Watch asserts that Windsor is in violation of this Agreement and Windsor corrects the action or inaction within sixty (60) days of written notice from River Watch describing the asserted violations, no further enforcement action under the terms of this

Agreement, including the dispute resolution process described in Section VIII.A. above shall be taken by either party.

IX. FORCE MAJEURE

Separate from, and in addition to, any other limitations on Windsor's obligations under this Agreement, Windsor's obligations to comply with any provisions of this Agreement shall be excused or deferred if compliance, or a delay in compliance, is caused by an event or circumstance beyond the reasonable control of Windsor or any entity controlled by Windsor, including its contractors, and which event or circumstance could not have been reasonably foreseen and prevented by the exercise of due diligence by Windsor. Where implementation of the actions set forth in this Agreement, within the deadlines prescribed, becomes impossible, despite the timely good faith efforts of Windsor, Windsor shall notify River Watch in writing within thirty (30) days of the date that Windsor knew of the event or circumstance precluding compliance, and shall describe the reason for the non-performance. The Parties agree to meet and confer in good faith concerning the non-performance and, where the Parties concur that the non-performance was or is impossible, despite the timely good faith efforts of one of the Parties, compliance shall be excused or new performance deadlines shall be established by agreement of the Parties. In the event that the Parties cannot timely agree, either party shall have the right to invoke the dispute resolution procedure described herein under Section VIII.

X. GENERAL PROVISIONS

A. Construction. The language in all parts of this Agreement shall be construed according to its plain and ordinary meaning, except as to those terms defined by law, in the Clean Water Act, or specifically herein.

B. Choice of Law. This Agreement shall be governed by the laws of the United States, and where applicable, the laws of the State of California, without regard to principles of conflict of laws.

C. Severability. In the event that any provision, section, or sentence of this Agreement is held by a court to be unenforceable, the validity of the enforceable provisions shall not be adversely affected.

D. Correspondence/Notices. All notices required herein or any other correspondence pertaining to this Agreement shall be sent by electronic mail and/or first class mail if digital copies are not available as follows:

To River Watch:

California River Watch
290 S. Main Street, # 817
Sebastopol, CA 95472
Email: US@ncriverwatch.org

And:

Jerry Bernhaut
Law Office of Jack Silver
P.O. Box 5469
Santa Rosa, CA 95402-5469
Telephone: (707) 528-8175
Email: j2bernhaut@yahoo.com

To Windsor:

Linda Kelly, Town Manager
Town of Windsor
8400 Windsor Road, Bldg. 100
P.O. Box 100
Windsor, CA 95492

And:

Sarah N. Olinger
MEYERS NAVE
555 12th Street, Suite 1500
Oakland, CA 94607
Tel. 510-808-2000
solinger@meyersnave.com

Notifications of communications shall be deemed submitted on the date that they are sent by electronic mail, postmarked and sent by first-class mail, or deposited with an overnight mail/delivery service. Any change of address or addresses shall be communicated in the manner described above for giving notices.

E. Counterparts. This Agreement may be executed in any number of counterparts, all of which together shall constitute one original document. Electronic, and/or facsimile copies of original signature shall be deemed to be originally executed counterparts of this

Agreement.

F. Assignment. Subject only to the express restrictions contained in this Agreement, all of the rights, duties and obligations contained in this Agreement shall inure to the benefit of and be binding upon the Parties and their successors and assigns.

G. No Third Party Beneficiaries. This Agreement is not intended to confer any rights or obligations on any third party or parties, and no third party or parties shall have any right of action under this Agreement for any cause whatsoever.

H. Modification. This Agreement, and any provisions herein, may not be changed, waived, discharged or terminated unless by written instrument signed by the Parties, except for changes of address or to the party notified in Section X.D.

I. Full Settlement. This Agreement constitutes a full and final settlement of this matter. It is expressly understood and agreed that the Agreement has been freely and voluntarily entered into by the Parties with and upon advice of counsel.

J. Integration. This is an integrated Agreement. This Agreement is intended to be a full and complete statement of the terms of the agreement between the Parties and expressly supersedes any and all prior oral or written agreements covenants, representations, and warranties (express or implied) concerning the subject matter of this Agreement.

K. Negotiated Agreement. The Parties acknowledge they have negotiated this Agreement, and agree that it shall not be construed against the party preparing it, but shall be construed as if the Parties jointly prepared this Agreement, and any uncertainty and ambiguity shall not be interpreted against any one party.

L. Authority. The undersigned representatives for River Watch and Windsor each certify that he or she is fully authorized by the party whom he or she represents to enter into the terms and conditions of this Agreement.

[signatures on following page]

Date: _____

CALIFORNIA RIVER WATCH

By:_____
Margaret Bacigalupi
Board President

Date: _____

TOWN OF WINDSOR

By:_____
Linda Kelly
Town of Windsor Manager

APPROVED AS TO FORM:

LAW OFFICE OF JACK SILVER

By: Jerry Bernhaut
Jerry Bernhaut, Attorney for California River Watch

Date: 1/31/14

MEYERS NAVE

By:_____
Sarah N. Olinger, Attorney for Town of Windsor

Date: _____

2202361.5

Date: 2/3/14

CALIFORNIA RIVER WATCH

By: Margaret Bacigalupi
Margaret Bacigalupi
Board President

Date: 2-5-14

TOWN OF WINDSOR

By: Linda Kelly
Linda Kelly
Town of Windsor Manager

APPROVED AS TO FORM:

LAW OFFICE OF JACK SILVER

By: _____
Jerry Bernhaut, Attorney for California River Watch

Date: _____

MEYERS NAVE

By: Sarah N. Olinger
Sarah N. Olinger, Attorney for Town of Windsor

Date: 2-6-14

2202361.5

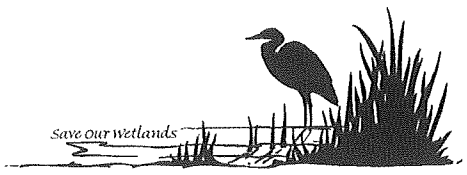
Exhibit A

Notice of Violations and Intent to File Suit under the Federal Water Pollution Control Act

"60-Day Notice"

Law Office of Jack Silver

P.O. Box 5469 Santa Rosa, California 95402
Phone 707-528-8175 Fax 707-528-8675
lhm28843@sbcglobal.net



VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 12, 2013

RECEIVED
APR 15 2013
TOWN OF WINDSOR

Richard Burtt, Public Works Director
Town of Windsor
8400 Windsor Road, Bldg. 100
P.O. Box 100
Windsor, CA 95492

Town Council - Town of Windsor
Acting as Board of Directors of
Windsor Water District
9291 Old Redwood Highway, Bldg. 400
Windsor, CA 95492

Re: Notice of Violations and Intent to File Suit Under the Clean Water Act

Dear Head of Agency/Operations and Town Council:

NOTICE

The Clean Water Act ("CWA" or "Act") requires that 60 days prior to the initiation of a civil action under CWA § 505(a), 33 U.S.C. § 1365(a), a citizen must give notice of the intent to sue to the alleged violator, the Environmental Protection Agency ("EPA") and the State in which the violations occur.

California River Watch ("River Watch") hereby places Windsor Water District, hereinafter referred to as "the Discharger" on notice, that following the expiration of 60 days from the date of this Notice, River Watch intends to bring suit in the United States District Court against the Discharger for continuing violations of an effluent standard or limitation, permit condition or requirement, a Federal or State Order or Permit issued under CWA § 402 pursuant to CWA § 301(a), and consistent with the Code of Federal Regulations, and the Regional Water Quality Control Board, North Bay Region, Water Quality Control Plan ("Basin Plan") as exemplified by the violations of permit conditions or limitations in the Discharger's National Pollutant Discharge Elimination System ("NPDES") Permit.

INTRODUCTION

The CWA regulates the discharge of pollutants into navigable waters. The statute is structured in such a way that all discharge of pollutants is prohibited with the exception of enumerated statutory exceptions. One such exception authorizes a polluter, who has been issued a permit pursuant to CWA §402, to discharge designated pollutants at certain levels subject to certain conditions. The effluent discharge standards or limitations specified in a NPDES permit define the scope of the authorized exception to the CWA §301(a), 33 U.S.C. §1311(a) prohibition, such that violation of a permit limit places a polluter in violation of the CWA. Private parties may bring citizens' suits pursuant to 33 U.S.C. § 1365 to enforce effluent standards or limitations, as defined under 33 U.S.C. §1365(f) and elsewhere within the Act or enumerating state and federal statutes and limitations.

The CWA provides that authority to administer the NPDES permitting system in any given state or region can be delegated by the EPA to a state or to a regional regulatory agency, provided that the applicable state or regional regulatory scheme under which the local agency operates satisfies certain criteria. *See* 33 U.S.C. §1342(b). In California, the EPA has granted authorization to a state regulatory apparatus comprised of the State Water Resources Control Board and several subsidiary regional water quality control boards, to issue NPDES permits. The entity responsible for issuing NPDES permits and otherwise regulating discharges in the region at issue in this Notice is the Regional Water Quality Control Board, North Coast Region ("RWQCB").

The CWA requires that any Notice regarding an alleged violation of an effluent standard or limitation of an order with respect thereto shall include sufficient information to permit the recipient to identify the following:

1. *The specific standard, limitation, or order alleged to have been violated.*

To comply with this requirement River Watch has identified the NPDES permit of the Windsor Water District and specifically identified the applicable permit standard, limitation or condition being violated. A violation of the NPDES permit is a violation of the CWA.

2. *The activity alleged to constitute a violation.*

Most often, the NPDES permit limitations being violated are self-explanatory and an examination of the language of the permit is sufficient to inform the Discharger, especially since the Discharger is responsible for complying with that permit condition. In addition, River Watch has set forth narratives in this Notice describing with particularity the activities leading to violations and has incorporated by reference the Discharger's own records and

other public documents in the Discharger's possession or otherwise available to the Discharger regarding its NPDES permit, compliance with that permit and any other information designed to inform the Discharger or the public.

3. *The person or persons responsible for the alleged violation.*

The entity responsible for the alleged violations identified in this Notice is the Windsor Water District, identified in this Notice as the Discharger, as owner and operator of the Windsor Wastewater Treatment Plant and its related collection system, as well as those of the Discharger's employees responsible for compliance with the Discharger's NPDES Permit.

4. *The location of the alleged violation.*

The location or locations of the various violations are identified in the Discharger's NPDES permit and also in records created and/or maintained by or for the Discharger which relate to the Windsor Wastewater Treatment Plant and related activities as further described in this Notice.

5. *The date or dates of violation or a reasonable range of dates during which the alleged activity occurred.*

River Watch has examined both RWQCB files and the Discharger's records with respect to the Windsor Wastewater Treatment Plant for the period from April 10, 2008 through April 10, 2013. The range of dates covered by this Notice is from April 10, 2008 through April 10, 2013. River Watch may from time to time update this Notice to include all violations of the CWA by the Discharger which occur after the range of dates currently covered by this Notice. Some of the violations are continuous, and therefore each day constitutes a violation.

6. *The full name, address, and telephone number of the person giving notice.*

The entity giving this Notice is California River Watch, referred to herein as "River Watch," 290 S. Main Street, #817, Sebastopol, CA 95472 – a 501(c)(3) non-profit, public benefit corporation organized under the laws of the State of California, dedicated to protect, enhance and help restore the groundwater and surface water environs of California including, but not limited to, rivers, creeks, streams, wetlands, vernal pools and tributaries. River Watch may be contacted via email: US@ncriverwatch.org or through its attorneys. River Watch has retained legal counsel with respect to the issues set forth in this Notice. All communications should be addressed as follows:

Jerry Bernhaut, Esq. or Jack Silver, Esq.
Law Offices of Jack Silver
P.O. Box 5469
Santa Rosa, CA 95402-5469
Tel. 707-528-8175
Email: lhm28843@sbcglobal.net

THE DISCHARGER'S OPERATION

The Discharger owns and operates the Windsor Wastewater Treatment Plant (the "Plant"), and its associated wastewater collection system consisting of approximately 80 miles of gravity sewer main. The discharge of treated wastewater from the Plant is regulated under Order No. R1-2007-0013 as modified by Order No. R1-2011-0006 (NPDES Permit CA 0023345). The Discharger provides sewage collection services for a population of over 26,500 residents. The Plant has design treatment capacities of 2.25 mgd average dry weather flow and 7.2 mgd peak wet weather flow. The Plant provides secondary treatment of wastewater collected from its service area and discharges to Mark West Creek, a tributary of the Russian River. In addition recycled water is discharged from the Plant to 33 sites in Windsor and nearby Sonoma County.

The Discharger's NPDES Permit contains several discharge prohibitions related to sewer system overflows ("SSOs"). Discharge Prohibition B prohibits the creation of pollution, contamination, or nuisances as defined by Section 13050 of the California Water Code. Discharge Prohibition E prohibits any SSO that results in a discharge of untreated or partially treated wastewater to waters of the State, groundwater, or land, that creates a pollution, contamination, or nuisance. Discharge Prohibition F prohibits the discharge of waste to land that is not owned by or subject to an agreement for use by the Discharger. Discharge Prohibition G prohibits the discharge of waste at any point except Discharge Points 002 or 003A/003B. A SSO can violate several of these prohibitions at once. Violations of the NPDES Permit are violations of the Clean Water Act.

The Discharger's collection system has experienced high inflow and infiltration (I/I) during wet weather. Structural defects in the collection system, which allow I/I into the sewer lines, result in a buildup of pressure which causes SSOs. Overflows caused by blockages and I/I result in the discharge of raw sewage into gutters, canals, and storm drains which are connected to adjacent surface waters – all waters of the United States. As recorded in California Integrated Water Quality System's ("CIWQS") Public SSO Reports, the Discharger's collection system has experienced 20 SSOs over the past five years, with a combined volume of 7,496 gallons - 5,272 gallons of which reached surface waters. For example, on February 17, 2011, a reported spill of approximately 282 gallons occurred at the intersection of American Way and Conde Lane, all 282 gallons of which reached Pool Creek.

The Discharger has a history of non-compliance with the SSO reporting requirements of the Statewide General Requirements for Sanitary Sewer Systems, Waste Discharge Requirements ("WDR") Order No. 2006-0003-DWQ, governing the operation of sanitary sewer systems. The Discharger is a permittee under the Statewide WDR which requires that sewer system operators report SSOs to the CIWQS, and include in that reporting an estimate of the volume of any spill, the volume recovered and the volume which reached a surface water.

The Discharger's field reports regularly designate the SSO start time as the same time the Discharger was notified of the SSO. These equivalencies are highly unlikely and result in an under-estimation of the duration of the spill. The Discharger's common practice of under-estimating the duration of the spill leads to underestimating the volume of the spill. The Discharger's SSO records generally do not indicate what method was used to estimate the total volume of the spill, which also calls into question the estimates of volume recovered and volume which reached a surface water.

The Discharger's NPDES Permit requires compliance with the entirety of the Statewide WDR. *See* NPDES Permit CA 0023345, Section VI(C)(5)(I). The Statewide WDR requires that when a SSO occurs, the Discharger is to take all feasible steps and perform necessary remedial actions. These actions include limiting the volume of waste discharged, terminating the discharge, and recovering as much of the wastewater as possible. Further remedial actions include intercepting and re-routing of wastewater flows, vacuum truck recovery of the SSO, cleanup of debris at the site, and modification of the system to prevent further SSOs at the site. One of the most important remedial measures is the performance of adequate sampling to determine the nature and the impact of the release. There is no evidence in the public record that the Discharger is adequately sampling SSOs that reach surface waters in order to properly mitigate the SSO.

In addition to SSOs which discharge over land into surface waters, underground leakages ("exfiltration") caused by pipeline cracks and other structural defects in the collection system result in discharges to adjacent surface waters via underground hydrological connections. Studies tracing human markers specific to the human digestive system in surface waters adjacent to defective sewer lines have verified the contamination of the adjacent waters with untreated sewage.[1] River Watch alleges that such discharges are continuous wherever ageing, damaged, structurally defective sewer lines in the Discharger's collection system are located adjacent to surface waters including Pruitt Creek, Windsor Creek, and the Russian River. Surface waters and groundwater become contaminated with fecal coliform, exposing people to human pathogens. Chronic failures in the collection system pose a substantial threat to public health.

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[1]See the Report of the Human Marker Study issued in July of 2008 and conducted by Dr. Michael L. Johnson, U.C. Davis water quality expert, performed for the City of Ukiah, finding the presence of human derived bacteria in two creeks adjacent to defective sewer lines.

The Discharger's NPDES Permit requires compliance with California Water Code § 13050 which prohibits the discharge of wastes that lead to contamination, pollution, or nuisance. Contamination is defined as "an impairment of the quality of the waters of the state by waste to a degree which creates a hazard to the public health." Pollution is defined as "an alteration of the quality of the waters of the state by waste to a degree which unreasonably affects either of the following: (A) the waters for beneficial uses; or (b) facilities which serve beneficial uses." Nuisance is defined as anything which meets the following requirements: 1) "is injurious to health, or is indecent or offensive to the senses . . . so as to interfere with the comfortable enjoyment of life or property"; 2) "affects at the same time an entire community or neighborhood, or any considerable number of persons"; and 3) "occurs during, or as a result of, the treatment or disposal of wastes."

The Russian River and its tributaries have many beneficial uses as defined in the RWQCB Basin Plan. The SSOs reaching the Russian River and its tributaries cause prohibited pollution by unreasonably affecting beneficial uses.

The Discharger's NPDES Permit also requires compliance with the Basin Plan, including narrative standards contained therein, used when numeric standards for testing purposes would be inadequate or impractical. These standards include:

1) Waters shall not contain taste or odor producing substances in concentrations that impart undesirable tastes or odors to fish flesh;

2) Waters shall not contain floating material in concentrations that cause nuisance or affect beneficial uses;

3) The pH shall not change within 0.5 units of the range needed for COLD or WARM beneficial uses, such as cold water habitat for fish;

4) The bacteriological quality of waters shall not be degraded beyond natural background levels; and,

5) Natural receiving water temperatures shall not be altered unless allowed by the RWQCB.

River Watch has found nothing in the public record to demonstrate the Discharger has monitored for and complied with these narrative standards.

The Plant and associated collection system is considered a Reclamation and Disposal facility. As such the Discharger must comply with the Water Reclamation Requirements and Provisions specified in the NPDES Permit. These requirements include having sufficient land capacity to dispose of the reclaimed water. Also, dischargers with incidental runoff (unintentional runoff not caused by the negligence of the discharger) of recycled water must

include a summary of these incidents in their quarterly recycled water monitoring report. There is potential enforcement action for incidental runoff if these events were inadequately responded to, repeated, violated water quality objectives, create pollution or nuisance, or reach a surface water in violation of the NPDES permit. In addition, recycled water "shall not be applied in such a manner so as to exceed vegetative demand or field capacity" and "shall not be allowed to escape the recycled use area(s) in the form of surface runoff." *See* Order No. R1-2011-0006, Attachment G.

The Discharger has experienced several incidental runoff incidents and other discharges of recycled water. For example, on May 4, 2011, water was discovered leaking from a pipe at Keiser Park in Windsor. In addition, the City of Windsor and the RWQCB were contacted by a concerned citizen who witnessed runoff from a hayfield where recycled water was being used. The citizen reported seeing water in the gutters which would eventually reach the nearby surface water. There is no evidence the Discharger has ever performed a hydrological study of areas where recycled water is applied to ensure that these areas have the capacity to contain the recycled water in such a manner to prevent runoff incidents and other discharges. The discharges described herein constitute violations of the provisions of California Water Code § 13050 previously identified in this Notice.

The Discharger's illegal discharge of untreated wastewater exceeding Basin Plan standards is a significant contribution to the degradation of the Russian River and its tributaries such as Windsor Creek, with adverse effects on beneficial uses of those waters. River Watch members residing in the area have a vital interest in bringing the Discharger's operations at the Plant and associated collection system into compliance with the CWA.

REMEDIAL MEASURES REQUESTED

1. DEFINITIONS

A. Condition Assessment: A report that comprises inspection, rating, and evaluation of the existing condition of a sewer collection system. Inspection is based upon closed circuit television ("CCTV") inspections for gravity mains; manhole inspections for structural defects; and, inspections of pipe connections at the manhole. After CCTV inspection occurs, pipe conditions are assigned a grade based on the Pipeline Assessment and Certification Program ("PACP") rating system, developed by the National Association of Sewer Service Companies. The PACP is a nationally recognized sewer pipeline condition rating system for CCTV inspections.

B. Full Condition Assessment: A Condition Assessment of all sewer lines in the sewer collection system with the exception of sewer lines located within two hundred (200) feet of surface waters.

C. Surface Water Condition Assessment: A Condition Assessment of sewer lines in the sewer collection system located within two hundred (200) feet of surface waters, including gutters, canals and storm drains which discharge to surface waters.

D. Significantly Defective: A sewer pipe is considered to be Significantly Defective if the pipe's condition receives a grade of 4 or 5 based on the PACP rating system. The PACP assigns grades based on the significance of the defect, extent of damage, percentage of flow capacity restriction, and/or the amount of pipe wall loss due to deterioration. Grades are assigned as follows:

5 – Most significant defect
4 – Significant defect
3 – Moderate defect
2 – Minor to moderate defect
1 – Minor defect

2. REMEDIAL MEASURES

River Watch believes the following remedial measures are necessary to bring the Discharger into compliance with its NPDES Permit as well as the Basin Plan, and to prioritize remedial measures to reflect the biological impacts of the Discharger's ongoing non-compliance:

A. SEWAGE COLLECTION SYSTEM INVESTIGATION AND REPAIR

1. The repair or replacement of all sewer lines in the Discharger's sewage collection system located within two hundred (200) feet from surface waters, including gutters, canals and storm drains which discharge to surface waters, which have been CCTV'd within five (5) years and which are Significantly Defective within two (2) years.

2. The completion of Surface Water Condition Assessment of sewer lines which have not been CCTV'd within two (2) years.

3. Within two (2) years after completion of the Surface Water Condition Assessment under section A.2. above, the Discharger will:

a. Repair or replace all sewer lines which have been found to be Significantly Defective;

b. Repair or replace sewer pipe segments that contain defects with a rating of 3 based on the PACP rating system, if such defect resulted in an SSO, or, if in the Discharger's discretion, such defects are in close proximity to Significantly Defective segments that are in the process of being repaired or replaced;

c. Sewer pipe segments that contain defects with a rating of 3 that are not repaired or replaced within five (5) years after completion of the Surface Water Condition Assessment shall be re-CCTV'd every five (5)years to ascertain the condition of the sewer line segment. If the Discharger determines that the grade-3 sewer pipe segment has deteriorated and needs to be repaired or replaced, the Discharger shall complete such repair or replacement within two (2) years after the last CCTV cycle.

4. Beginning no more than (1) year after completion of the Surface Water Condition Assessment, the Discharger shall commence a Full Condition Assessment to be completed within seven (7) years.

a. Any sewer pipe segment received a rating of 4 or 5 based on the PACP rating system shall be repaired or replaced within two (2) years of the rating determination.

B. SSO REPORTING AND RESPONSE

1. Modification of the Discharger's Backup and SSO response plan to include the method or calculations used for estimating total spill volume, spill volume that reached surface waters and estimating spill volume recovered.

2. For Category I Spills, creation of a listing of nearby residents or business operators who have been contacted to attempt to establish the SSO start time, duration, and flow rate, if such start time, duration, and flow rate have not been otherwise reasonably ascertained, such as from a caller who provides information that brackets a given time that the SSO began.

3. Taking of photographs of the manhole flow at the SSO site utilizing the San Diego Method array method or other photographic evidence that may aid in establishing the spill volume.

4. A requirement for water quality sampling and testing whenever it is estimated that fifty (50) gallons or more of untreated or partially treated waste water enters surface waters. Constituents tested for to include: Ammonia, Fecal Coliform, E. coli and a CAM-17 toxic metal analysis. The Discharger shall

collect and test samples from three (3) locations: the point of discharge, upstream of the point of discharge, and downstream of the point of discharge. If any of said constituents are found at higher levels in the point of discharge sample and the downstream sample than in the upstream sample, the Discharger is to determine and address the cause of the SSO that enters surface waters, and employ the following measures to prevent future overflows: (a) if the SSO is caused by a structural defect, then immediately spot repair the defect or replace the entire line; (b) if the defect is non-structural, such as a grease blockage or vandalism to a manhole cover, then perform additional maintenance or cleaning, and any other appropriate measures to fix the non-structural defect.

5. The creation of web site capacity to track information regarding SSOs; or, in the alternative, the creation of a link from the Discharger's website to the CIWQS SSO Public Reports. The Discharger would notify all customers and other members of the public of the existence of the web based program, including a commitment to respond to private parties submitting overflow reports.

6. Performance of human marker sampling on creeks, rivers, and wetlands adjacent to sewer lines to test for sewage contamination from exfiltration.

C. LATERAL INSPECTION/REPAIR PROGRAM

Creation of a mandatory, private sewer lateral inspection and repair program triggered by any of the following events:

1. Transfer of ownership of the property if no inspection/replacement of the sewer lateral occurred within twenty (20) years prior to the transfer;

2. The occurrence of two (2) or more SSOs caused by the private sewer lateral within two (2) years;

3. A change of the use of the structure served (a) from residential to non-residential use, (b) to a non-residential use that will result in a higher flow than the current non-residential use, and (c) to non-residential uses where the structure served has been vacant or unoccupied for more than three (3)years;

4. Upon replacement or repair of any part of the sewer lateral;

5. Upon issuance of a building permit with a valuation of $25,000.00 or more;

6. Upon significant repair or replacement of the main sewer line to which the lateral is attached.

D. RECLAMATION PROGRAM MANAGEMENT

Conduction of soil water holding capacity and agronomic studies on all lands utilized for disposal of treated or partially treated wastewater, to ensure against runoff of either waste water during use of reclaimed water for irrigation, or nutrient runoff during rain events.

VIOLATIONS

River Watch contends that from April 10, 2008 through April 10, 2013, the Discharger violated the requirements of the NPDES Permit, the Basin Plan and the Code of Federal Regulations, as those requirements are referenced in the NPDES Permit, with respect to the Plant and associated collection system. Said violations are evidenced in the Discharger's Self Monitoring Reports, testing data compiled in compliance with the NPDES Permit or other orders of the RWQCB, and other documentation filed with the RWQCB or in the Discharger's possession, and as evidenced by unpermitted discharges due to failures in the collection system. Furthermore, these violations are continuing. The violations, include, but are not limited to, the following categories in the NPDES Permit:

Discharge Prohibitions

Violations	**Description**
1800	**Collection system subsurface discharge caused by underground exfiltration** – an event in which untreated sewage is discharged from the collection system prior to reaching the Plant. Underground discharges are alleged to have been continuous throughout the 5 year period from April 10, 2008 through April 10, 2013 (Order No. R1-2007-0013, Discharge Prohibition III.D: "Discharges of untreated or partially treated waste from anywhere within the collection, treatment, or disposal facility is prohibited.") (Order No. R1-2007-0013, Discharge Prohibition III. E: "Any sanitary sewer overflow (SSO) that results in a discharge of untreated or partially treated wastewater to (a) waters of the State, (b) groundwater, or (c) land that creates a pollution, contamination, or nuisance . . . is prohibited.")

Supporting evidence exists in the Discharger's own mass balance data regarding the number of connections in the service area, estimates of average daily volume of wastewater per connection, influent flow volumes to the Plant reported in Self

Monitoring Reports, video inspection of the collection system and testing of waterways adjacent to sewer lines, creeks, and wetlands for human markers, nutrients, pathogens and other constituents indicating sewage contamination.

20 **SSOs** – as evidenced in the CIWQS Interactive Public SSO Reports, including those discussed above, and unrecorded surface overflows witnessed by local residents.

(Order No. R1-2007-0013, Discharge Prohibition III.D: "Discharges of untreated or partially treated waste from anywhere within the collection, treatment, or disposal facility is prohibited.")

(Order No. R1-2007-0013, Discharge Prohibition III. E: "Any sanitary sewer overflow (SSO) that results in a discharge of untreated or partially treated wastewater to (a) waters of the State, (b) groundwater, or (c) land that creates a pollution, contamination, or nuisance . . . is prohibited.")

Monitoring Requirements

Violations /Description

15 Failure to monitor, report or adequately describe violations. The majority these violations occur due to failure to report violations of Discharge Prohibition III. E of Order No. R1-2007-0013, failure to report violations of Discharge Prohibition III.D of Order No. R1-2007-0013, as well as failure to adequately describe reported violations of said provisions.

CONCLUSION

The violations as set forth in this Notice effect the health and enjoyment of members of River Watch who reside and recreate in the affected communities. These members use the affected watershed for domestic water supply, agricultural water supply, recreation, sports, fishing, swimming, hiking, photography, nature walks and the like. Their health, use and enjoyment of this natural resource is specifically impaired by the Discharger's violations of the CWA as alleged in this Notice.

River Watch believes this Notice sufficiently states grounds for filing suit. At the close of the 60-day notice period or shortly thereafter River Watch intends to file a citizen's suit under CWA § 505(a) against the Discharger for the violations identified in this Notice. During the 60-day notice period, River Watch is willing to discuss effective remedies for the

violations noted. However, if the Discharger wishes to pursue such discussions in the absence of litigation, it is suggested those discussions be initiated soon so that they may be completed before the end of the 60-day notice period. River Watch does not intend to delay the filing of a lawsuit if discussions are continuing when that notice period ends.

Very truly yours,

Jerry Bernhaut

JB:lhm

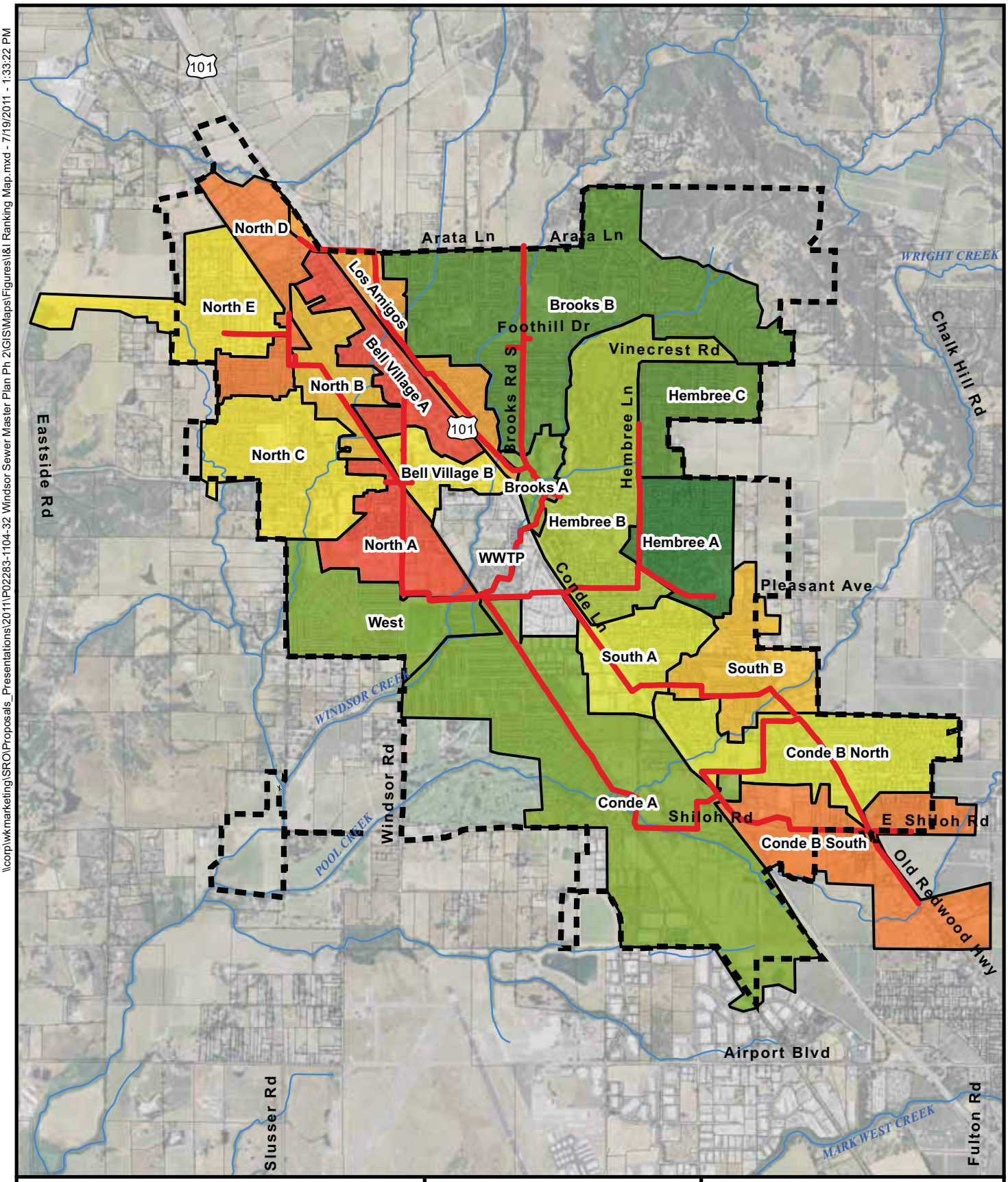
cc: Administrator
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Regional Administrator
U.S. Environmental Protection Agency Region 9
75 Hawthorne St.
San Francisco, CA 94105

Executive Director
State Water Resources Control Board
P.O. Box 100
Sacramento, California 95812-100

Exhibit B

Figure 7 from *Collection System Infiltration and Inflow Study*, Winzler & Kelly (September 2011)



Town Limits
Basins
Parcels
Rivers and Creeks
Trunk Sewer

Combined I&I Ranking

> 18	4 - 6
16 - 18	2 - 4
14 - 16	< 2
12 - 14	
10 - 12	
8 - 10	
6 - 8	

N

0 1,500 3,000 ft

1 inch = 3,000 feet printed at 8.5x11

Sources: ESRI Basemap: Aerial and Transportation; Sonomat County GIS: Parcels; Winzler and Kelly GIS: Sewer System and Basins.

WINZLER & KELLY
www.w-and-k.com

© Winzler & Kelly

Figure 7
I&I Ranking Map

Collection System Infiltration and Inflow Study
Town of Windsor

TOWN OF WINDSOR

Cartography: AF

\\corp\wkmarketing\SRO\Proposals_Presentations\2011\P02283-1104-32 Windsor Sewer Master Plan Ph 2\GIS\Maps\Figures\I&I Ranking Map.mxd - 7/19/2011 - 1:33:22 PM

APPENDIX B

Names, Positions, and Contact Information

APPENDIX B: NAMES, CONTACT INFORMATION, AND POSITION DESCRIPTIONS

Position	Name	Telephone Number
Public Works Director/Town Engineer	Toni Bertolero	707-838-5978 (office)
Deputy Directory of Operations	Richard Bartlett	707-838-5309 (office) 707-301-0838 (cell)
Utility Systems Superintendent	Mike Cave	707-838-5329 (office) 707-217-8623 (cell)
Deputy Director of Engineering	Stuart Hayre	707-838-5976 (office)
Senior Civil Engineer	Jim Smith	707-838-5343 (office) 707-326-7845 (cell)
Collection/Reclamation Systems Supervisor	Richard Ramos	707-838-1196 (office) 707-327-6749 (cell)
Utility Maintenance Workers	Various	N/A
After-Hours Answering Service	Signus	707-575-6576
Sheriff Dispatch (Hazmat)	Dispatch	707-565-2121
Governor's Office of Emergency Services	Dispatch	800-852-7550
North Coast Regional Water Quality Control Board	Cathy Goodwin	707-576-2220 707-523-0135 (FAX)
Sonoma County Environmental Health Division	Dispatch	(707) 565-6565

SSMP Role Description

The Town of Windsor maintains a description of the role required for all Town personnel who have a responsibility described in the SSMP. The following table describes the roles and responsibilities for a particular job title with respect to the SSMP. The comprehensive job description for the job title can be found in the "Town General Position Description" document identified below.

Job Title: **Public Works Director/Town Engineer**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	– Recommends approval of Town Standards and Details for the wastewater collection system. – Approves wastewater and water reclamation Capital Projects in the Town's Capital Improvement Program. – Recommends and approves policies and procedures pertaining to wastewater collection and water reclamation system engineering. – Approval authority for activities and programs implemented by the PW Department.
Overflow Emergency Response:	N/A
SSO Reporting:	N/A

Narrative Description of SSMP Role(s):

The Town's authorized representative in all wastewater collection system matters is the **Public Works Director / Town Engineer**. The **Public Works Director** reports to the Town Manager and is responsible for Public Works Operations and Engineering programs and activities.

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SSMP Role Description

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Job Title: **Deputy Director of Operations**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	— Designated Manager over utility operations — Recommends operational policies and procedures for Wastewater collection and Water Reclamation — Manages and oversees operational regulatory compliance
Overflow Emergency Response:	— Notifies Department Director in the event of an SSO
SSO Reporting:	— LRO-Operational reporting compliance

Narrative Description of SSMP Role(s):

The **Deputy Director of Operations,** reports to the Public Works Director. The Deputy Director of Operations manages the maintenance of all public works for the Town, including the wastewater collection system. The Deputy Director of Operations **is authorized to act on Public Works Director / Town Engineer's behalf when required. The Deputy Director of Operations is a designated Legally Responsible Official (LRO)** or duly authorized representative to prepare, certify and submit electronic spill reports to the RWQCB and SWRCB and to notify other government agencies**.**

i:\63 - engineering dept\caf\toni b\ssmp\ssmp roles wtr sys sup 1.22.14.docx

SSMP Role Description

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Job Title: **Utility Systems Superintendent**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	— Document / coordinate activities — Coordinate contract staffing — Develop and implement new procedures — Schedule safety training topics / hands-on experience — Town contact for Industrial Waste Program (IWP) and FOG Program — Establish Service Contracts — Develop budget to support existing programs and maintenance activities
Overflow Emergency Response:	— Notifies management in event of an SSO
SSO Reporting:	— Designated LRO (Legally responsible operator) — All reporting to in-house parties and external agencies

Narrative Description of SSMP Role(s):

The **Utility Systems Superintendent**, reports to the Deputy Director of Operations. The **Utility Systems Superintendent** is responsible for supervising employees and performing maintenance tasks for the wastewater collection system, the water distribution system, storm drains and creeks, and the recycled water distribution system. The **Utility Systems Superintendent is authorized to act on the Director of Operations' behalf when required. The Utility Systems Superintendent is a designated Legally Responsible Official (LRO)** or duly authorized representative to prepare, certify and submit electronic spill reports to the RWQCB and SWRCB and to notify other government agencies**.**

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SSMP Role Description

The Town of Windsor maintains a description of the role required for all Town personnel who have a responsibility described in the SSMP. The following table describes the roles and responsibilities for a particular job title with respect to the SSMP. The comprehensive job description for the job title can be found in the "Town General Position Description" document identified below.

Job Title: **Deputy Director of Engineering**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	— Develops and recommends approval of Town Standards and Details for the wastewater collection system. — Oversees and recommends approval of wastewater and water reclamation Capital Projects in the Town's Capital Improvement Program. — Reviews and recommends approval of new development or re-development projects and their connection to the Town's wastewater system. — Develops and recommends policies and procedures pertaining to wastewater collection and water reclamation system engineering.
Overflow Emergency Response:	N/A
SSO Reporting:	N/A

Narrative Description of SSMP Role(s):

The **Deputy Director of Engineering**, reports to the Public Works Director / Town Engineer. The **Deputy Director of Engineering** is responsible for management of the Engineering Division of the Public Works Department, the Capital Improvement Program, budgeting, and supervision of technical staff. The **Deputy Director of Engineering** is authorized to act on the Public Work Director's behalf as a duly authorized representative.

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SSMP Role Description

The Town of Windsor maintains a description of the role required for all Town personnel who have a responsibility described in the SSMP. The following table describes the roles and responsibilities for a particular job title with respect to the SSMP. The comprehensive job description for the job title can be found in the "Town General Position Description" document identified below.

Job Title: **Collection/Reclamation Systems Supervisor**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	— Scheduling maintenance repair activities for Town Staff and contractors — Create and execute traffic control plans and scheduling — Maintains in-house records of collection system & cleaning / maintenance
Overflow Emergency Response:	— SSO response, containment, coordination and record keeping
SSO Reporting:	N/A

Narrative Description of SSMP Role(s):

The **Utility Systems Superintendent** is supported by one (1) **Collection/Reclamation Systems Supervisor,** and five (5) **Utility Maintenance Worker I and IIs** who collectively perform a broad range of duties associated with inspection, maintenance, and repair of the sewer collection system.

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SSMP Role Description

The Town of Windsor maintains a description of the role required for all Town personnel who have a responsibility described in the SSMP. The following table describes the roles and responsibilities for a particular job title with respect to the SSMP. The comprehensive job description for the job title can be found in the "Town General Position Description" document identified below.

Job Title: **Utility Maintenance Worker I / II**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	- Collection system cleaning - Scheduled hot-spot cleaning - Collection system repairs, including Lift Stations - Weekly, Monthly Sewer Lift Station maintenance - Quarterly Lift Station cleaning - I&I (Infil & Infiltration) system maintenance - Assist contracted staff for system maintenance, repairs
Overflow Emergency Response:	- Respond to SSO callouts
SSO Reporting:	N/A

Narrative Description of SSMP Role(s):

The **Utility Systems Superintendent** is supported by one (1) **Collection/Reclamation Systems Supervisor,** and five (5) **Utility Maintenance Worker I and IIs** who collectively perform a broad range of duties associated with inspection, maintenance, and repair of the sewer collection system.

SSMP Role Description

The Town of Windsor maintains a description of the role required for all Town personnel who have a responsibility described in the SSMP. The following table describes the roles and responsibilities for a particular job title with respect to the SSMP. The comprehensive job description for the job title can be found in the "Town General Position Description" document identified below.

Job Title: **Senior Civil Engineer**	**Town General Position Description:**
SSMP Responsibilities	
Implementation:	— Oversees the approval and audit process for the Town's SSMP. — Engineering Liaison for the Town for communication with the Regional Water Quality Control Board pertaining to NPDES permit matters. — Provides engineering support to Operations and Maintenance staff for engineering, public works project bidding (for Repair/Replacement projects).
Overflow Emergency Response:	N/A
SSO Reporting:	N/A

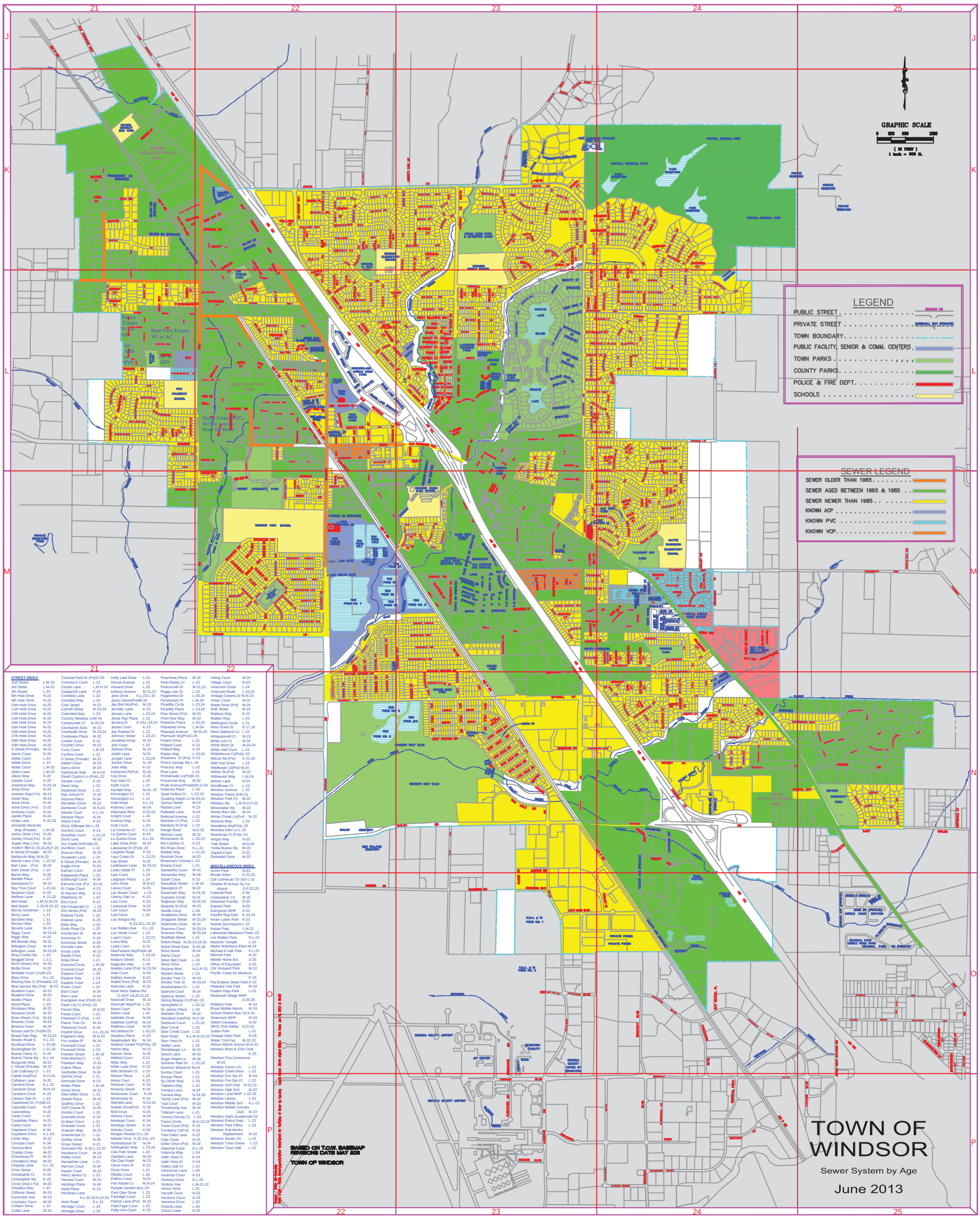
Narrative Description of SSMP Role(s):

The **Senior Civil Engineer**, reports to the Deputy Director of Engineering. The **Senior Civil Engineer** is responsible for providing engineering support to Operations and Maintenance staff for engineering and public works projects bidding. The **Senior Civil Engineer** is responsible for utility repair and replacement projects. The **Senior Civil Engineer** is authorized to act on the Deputy Director of Engineering's behalf as a duly authorized representative.

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APPENDIX C

Sample Sanitary Sewer Collection System Map



STREET INDEX

2nd Street L,M-23
3rd Street L,M-23
4th Street L-23
8th Hole Drive N-23
9th Hole Drive N-23
10th Hole Drive N-23
11th Hole Drive N-23
12th Hole Drive N-23
13th Hole Drive N-23
14th Hole Drive N-23
15th Hole Drive N-23
16th Hole Drive N-23
17th Hole Drive N-23
18th Hole Drive N-23
19th Hole Drive N-23
A Street (Private) M-23
Aaron Court L-22
Abbie Court L-22
Adele Drive L-23
Alden Court L,M-23
Alden Lane L,M-23
Alexis Way K-22
Amelia Court K-23
American Way N-23,24
Amie Drive N-24
Andrew Way(Pvt) M-24
Anish Way N-24
Anna Drive N-24
Anne Drive (Pvt) O-25
Anthony Court N-24
Apollo Place N-24
Arata Lane K-22,23
Armando Renzullo Way (Private) L,M-23
Arthur Drive (Pvt) O-25
Ashley Drive(Pvt) K-22
Aspen Way (Pvt) M-23
Aviation Blvd O-23,24,25;P-25
B Street (Private) M-23
Baldocchi Way M,N-23
Bambi Lane (Pvt) L-22,23
Bari Lane (Pvt) M-24
Bark Street (Pvt) L-22
Barrio Way N-25
Bartlett Place L-23
Basswood Ct M-23
Bay Tree Court L-23,24
Beatrice Court K-23
Bellfore Lane K-21,22
Bell Road L,M-22;M-23
Bell Street L-22;M-22,23
Benny Goodman L-23
Berry Lane L-21
Bershire Way L-21
Berwyn Way L-22
Beverly Lane M-23
Biggs Court M-23,24
Biggs Way K-23
Bill Beedie Way M-22
Billington Court M-24
Billington Lane M-23,24
Bing Crosby Wy L-23
Binggeli Drive L-2,1,
Birch Street (Pvt) M-23
Birdie Drive N-23
Birkdale Court (Pvt)K-23
Blasi Drive K,L-22
Blazing Star Ct (Private)L-23
Blue Spruce Wy (Pvt) M-23
Bluebird Court M-23
Bluebird Drive M-23
Boden Place K-22
Bond Place L-23
Bordeaux Way M-22
Bouquet Circle M-22
Brian Street (Pvt) M-24
Brianne Circle M-24
Brianne Court M-24
Broad Leaf Dr (Pvt)M-23
Broad Oak Way M-23,24
Brooks Road S K,L-23
Buckeye Drive L-23,24
Buckingham Dr L-21,22
Buena Tierra Ct K-24
Buena Tierra Wy K,L-24
Burgundy Way M-22
C Street (Private) M-23
Cab Calloway Ct L-23
Caletti Ave(Pvt) N,O-24
Callahan Lane N-25
Camelot Drive K,L-22
Cameron Drive M,N-23
Candace Court K-23
Canyon Oak Dr L-23
Capewood Dr (Pvt)M-23
Caporale Court N-25
CaranoWay N-22
Carey Court L-22
Castelletto Place N-23
Cathy Court M-22
Cayetano Court K-24
Cayetano Drive K,L-24
Cellar Way M-22
Cerrada Court K-24
Cessna Blvd O-23
Chablis Drive M-22
Chardonay Pl M-22
Chinaberry Way M-23
Chiquita Lane K,L-22
Chris Street N-25
Christopher Ct K-22
Christopher Wy K-22
Circle Drive (Pvt) M-23
Claudius Way L-22
Cliffrose Street M-23
Cockrobin Ave M-23
Cocksprur Court M-24
Colleen Drive L-22
Collet Lane M-24
Colonial Park Dr (Pvt)O-25
Commons Court L-22
Conde Lane L,M,N-23
Copperhill Lane P-24
Cordellia Lane L-22
Cordoba Way L-24
Cork Street M-22
Cornell Street M-23,24
Cottontail Way L-23
Country Meadow LnM-24
Countryside Ct M-23,24
Courtyards East M-23
Creekside Drive M-23,24
Creekview Place M-22
Cricket Court K-22
Crusher Drive M-22
Curry Court L,M-23
Cynthia Court L-22
D Street (Private) M-23
Dalton Court M-23
Darcy Drive M-24
Dartmouth Way M,N-24
David Clayton Ln (Pvt)L-22
Davida Court K-23
Dawn Way L-22
Daybrook Drive L-22
Day School Pl O-24
Deanna Place N-24
Decanter Circle M-22
Denbeste Court M-23
Denise Court K,L-23
Desiree Place N-24
Diana Court K-23
Dizzy Gillespie Wy L-23
Dominic Court K-22
Dorothea Court L-21,22
Dove Lane M-23
Dry Creek Dr(Pvt)M-23
Duchess Court L-22
Duncan Drive M-22
Duvander Lane L-23
E Street (Private) M-23
Eagle Drive N-23
Earhart Court O-24
Edgewood Place L-23
Edinburgh Court K-23
Edmund Ave (Pvt)O-25
El Cobar Court K-23
El Macero Way K-23
Elderberry St L-24
Elio Court K-22
Ella Fitzgerald Ct L-23
Elm Street (Pvt) M-23
Elsbree Circle L-23
Elsbree Lane K-23
Elsie Way L-24
Emily Rose Cir L-22
Emmerson St M-24
Encinosa Ct K-24
Encinosa Street K-24
Entrada Lane K-22
Enzos Lane M-23
Equity Court K-22
Erika Drive L-21
Esmond Circle L,M-23
Esmond Court M-23
Espana Court L-24
Espana Way L-24
Esparto Court L-23
Essex Court L-21
Eton Court N-24
Eton Lane N-24
Evergreen Ave (Pvt)K-22
Fawn Lily Ct (Pvt)L-23
Ferrari Way M,N-22
Fiesta Court L-22
Fireweed Ct (Pvt) L-23
Flame Tree Cir M-24
Flamenco Court K-24
Foothill Drive K,L-23,24
Foppiano Way M,N-23
Fox Hollow Pl M-24
Foxwood Court L-22
Foxwood Drive L-23
Franklin Street L,M-23
Fred Waring Ct L-23
Freedom Way O-23
Fulton Place K-22
Garibrielle Drive N-24
Gemini Drive L-21
Gertrude Drive K-23
Ginko Place L,M-24
Ginny Drive M-22
Glen Miller Drive L-23
Goblet Place M-22
Godfrey Drive L-22
Golf Course Dr N-23
Gordon Court L-23
Graciella Drive K-22
Graham Court L-21
Granado Court L-23
Grayson Way M-23
Greenbrook Ct L-22
Gridley Drive N-25
Grove Street K-21
Gumview Rd K-21,L-21,22
Hackberry Court M-24
Hailey Court M-23
Hampshire Lane L-21
Harmon Court N-24
Harper Court M-23
Harry James Ct L-23
Harvest Court M-23
Hastings Place N-24
Heidi Place K-23
Hembree Lane K,L,M-23;N-22,23
Herb Road K,L-21
Heritage Court L-24
Heritage Drive L-24
Holly Leaf Drive L-24
Honsa Avenue L-22
Howard Drive L-22
Indiana Avenue M-21,22
Jane Drive K,L-22;L-23
Jason Street(Pvt)M-24
Jay Bird Wy(Pvt) M-23
Jennifer Lane K-23
Jensen Lane L-23,24
Jesse Ray Place L-22
Jessica Dr K-23;L-22,23
Jessie Court K-23
Joe Rodota Dr L-22
Johnson Street L-22,23
Jonathan Drive M-22
Joni Court L-22
Joshua Drive M-23
Judith Lane N-24
Juniper Lane L-23,24
Justice Drive N,-23
Jutta Way K-23
Katherine Pl(Pvt) M-24
Kay Drive O-25
Kay Starr Ct L-23
Keith Court L-21
Kendall Way N-24, 25
Kensington Ct L-21
Kensington Ln L-21
Kidd Road K,L-21
Kilarney Lane M-24
Kittyhawk Blvd O-23,24
Knight Court L-24
Kristine Way K-23
Kyle Court L-22
La Contenta Ct K,L-23
La Quinta Court K-24
La Quinta Drive K,L-24
Lake Drive (Pvt) M-23
Lakewood Dr (Pvt)L-23
Laughlin Road P-23
Lazy Creek Dr L-22,23
Lea Street N-25
Leatherwood Lane M-23,24
Leafy Glade Pl L-24
Lear Court L-22
Leighann Place L-24
Leno Drive M,N-22
Leona Court N-25
Les Brown Court L-23
Liberty Oak Ln K-23
Lilac Court K-23
Lockwood Drive N-25
Loni Court N-24
Lord Drive L-22
Los Amigos Rd K-21,22;L-22,23
Los Robles Ave K,L-22
Los Verde Court L-23
Luann Court L-22,23
Luisa Way N-22
Lydia Court K-21
MacFarlane Wy(Pvt)N-24
Madrone Way L-23,24
Maduro Street K-21
Magnolia Way L-24
Maiden Lane (Pvt) M-23,24
Mall Court N-24
Mallory Avenue K-23
Maple Drive (Pvt) M-23
Marcella Lane K-22
Mark West Station Rd O-25;P-19,20,21,22
Marshall Drive M-22
Marshall Way(Pvt) L-22
Marsi Court N-24
Martin Lane L-21
Mathilde Drive N-25
Matthew Cir(Pvt) M-24
Matthew Court N-24
McClelland Dr L-22,23
Meadow Place K-23
Meadowlark Wy M-24
Medical Center Plz(Pvt)L-23
Merlot Way M-22
Mermet Drive N-25
Mildred Court K-21
Milky Way L-21
Miller Lane (Pvt) K-22
Mills Brothers Ct K-23
Milsom Place L-23
Mima Court K-23
Miramar Court K-24
Miramar Street K-24
Miramonte Court K-24
Miramonte St K-24
Mitchell Lane N-22,23
Mobile Drive(Pvt) O-25
Moll Drive N-25
Monica Court N-24
Montego Court K-24
Montego Street K-24
Montez Court K-24
Morgan Woods Ct L-23
Natalie Drive K-22,23;L-23
Northampton Dr N-24
Nottingham Way L-23,24
Oak Park Street L-22
Oakfield Lane M-23
Old Oak Road M-23
Olson Farm R K-23
Orion Drive L-21
Othello Court L-22
Pallino Court N-23
Pan Abode Ct M,N-24
Parade Garden Wy L-23
Park Glen Drive L-22
Partridge Court L-23
Patrick Lane (Pvt) M-22
Patti Page Court L-23
Patty Ann Court K-23
Peachtree Place M-24
Pearl Bailey Ct L-23
Pedroncelli Dr M-22,23
Peggy Lee Ct L-23
Peppertree Dr L-23,24
Persimmon Pl L,M-24
Picadilly Circle L-23,24
Picadilly Place L-23,24
Pine Street (Pvt) M-23
Pinot Noir Way M-22
Pistachio Place L-23,24
Planetree Drive L,M-24
Pleasant Avenue M-24,25
Plymouth Wy(Pvt)O-25
Polaris Drive L-21
Pollard Court K-22
Pollard Way K-22
Poplar Way L-23,24
Prestwick Ct (Pvt) K-23
Prince George Wy L-24
Princess Way K-22
Prior Lane L-21
Promenade Ln(Pvt)K-21
Provencial Way M-22
Pruitt Avenue(Private)N,O-24
Pulteney Place L-23
Quail Hollow Ct L-22,23
Quercus Aspen Ln M-23,24
Quince Street M-24
Rachel Lane K-23
Rafanelli Lane N-23
Railroad Avenue L-22
Raintree Ct (Pvt) L-22
Raintree St (Pvt) L-22
Range Road N,O-23
Reiman Lane M-22
Richardson St L-22,23
Rio Camino Ct K-23
Rio Ruso Drive K,L-22
Robbie Way L-21,22
Rochioli Drive M-23
Rosemary Clooney L-23
Rosina Court L-21
Samantha Court M-24
Samantha Way M-24
Sarah Court M-24
Sassafras Street L,M-24
Sauvignon Pl M-22
Savannah Way N-24,25
Scenario Circle N-23
Seghesio Way M-22,23
Sequoia St (Pvt) M-23
Seville Court L-24
Shadetree Drive M-24
Shagbark Street M-23,24
Shamrock Circle M-24
Shannon Court M-23,24
Shannon Way M-23,24
Sheffield Street L-23
Shiloh Road N-22,23,24,25
Shiloh Road East N-25,26
Shira Street M-24
Sierra Court L-23
Silver Bell Court L-24
Sirius Drive L-22
Skylane Blvd N,O,P-23
Skylark Street L-23
Smoke Tree Ct M-24
Smoke Tree St M-23,24
Southampton Dr L-21
Sparrow Court M-24
Spencer Street L-22
Spring Beauty Ct (Pvt)L-23
Springfield Ct L-21,22
St. James Place L-24
Stamper Drive M-22
Standard Ave(Pvt) N,O-24
Starburst Court L-21,22
Starr Circle L-22
Starr Creek Court L-22
Starr Road K,L,M,N-21,22
Starr View Dr L-21
Stellar Lane L-22
Stonebarger Ln M-23
Stretch Lane M-23
Sugar Maple Ln M-24
Summer Rain Dr L-22,23
Summer Wheat Dr M-24
Sunray Court L-21
Sunray Place L-21
Sy Oliver Way L-23
Tabatha Way L-22
Tamara Lane N-24
Tamara Way N-24,25
Tandy Lane (Pvt) M-24
Teal Court M-23
Thrushwing Ave M-24
Tolleson Lane L-21
Tommy Dorsey Ct L-23
Trione Circle M,N-22,23
Troon Court (Pvt) K-23
Turnberry Ct(Pvt) K-23
Twin Oaks Lane K-22
Tyler Court N-24
Usher Drive (Pvt) M-24
Valencia Court K,L-24
Valencia Way L-24
Valle Vista Ct K-24
Valle Vista St K-24
Valley Oak Ct L-22
Vancouver Lane L-24
Vanessa Court K-23
Ventana Drive K,L-23
Ventnor Ave L,M-21,22
Venus Drive L-21
Vercelli Court N-22
Veronica Court K-23
Veronica Drive L-22
Victoria Lane L-24
Victory Lane N-24
Viking Court M-24
Village Court N-23
Vinecrest Circle L-24
Vinecrest Road L-23,24
Vintage Greens Dr M,N-23
Vivian Court M-22
Wade Drive (Pvt) M-24
Wall Street M-22
Wallace Way K-22
Walten Way L-22
Wellington Circle L-21
West Grant St E-17,18
West Starburst Ct L-22
Whippoorwill Ct M-23
White Ash Ct N-24
White Birch Dr M-23,24
White Hall Court L-21
Whitethorne Ct(Pvt)L-23
Wilcox Rd (Pvt) K-21,22
Wild Oak Drive L-22
Wildflower Ct(Pvt) M-24
Willow St (Pvt) M-23
Willowood Way L,M-24
Wilson Lane N-24
Windflower Ct L-23
Windsor Avenue L-22
Windsor Palms Drkl-23
Windsor Park Cir M-22
Windsor Rd L,M,N,O,P-22
Winemaker Wy M-22
Winter Born Wy M-24
Winter Creek Ln(Pvt) M-22
Wisteria Way L-23
Woodbine Wy(Pvt)L-22
Wooded Glen Ln L-22
Woodrose Ct (Pvt)L-23
Wright Way N-25
Yoes Street M,N-24
Yerba Buena Wy M-23
Zapata Court K-22
Zinfandel Drive M-22

MISCELLANEOUS INDEX

Acorn Park N-23
Brooks Elem K-22,23
Cal Calmecac Ch Sch L-21
Charles M Schulz So Co Airport O,P-22,23
Colonial Park O-25
Corporation Yd M-22
Detention Facility O-23
Esposti Park N-25
Evergreen MHP K-23
Foothill Reg Park K-23,24
Hiram Lewis Park K-23
Huerta Gymnasium L-22
Keiser Park L,M-22
Lakewood Meadows Park L-23
Los Robles Park K,L-22
Masonic Temple L-22
Mattie Washburn Elem M-24
Michael A Hall Park K,L-22
Mitchell Park N-23
Mobile Home Est O-25
Office of Education O-23
Old Vineyard Park M-22
Pacific Coast Air Museum P-23
Pat Etsbree Skate Park K-23
Pleasant Oak Park M-24
Pueblo Viejo Park L-23
Redwood Village MHP O-25,26
Robbins Park M-24
Royal Mobile Manor M-24
School District Bus Yd K-21
Shamrock MHP M-24
Shiloh Cemetery N-22
SRJC Pub Safety N,O-23
Sutton Park L-21
Vintage Oaks Park N-23
Water Trmt Fac M-22,23
Wilson Ranch Soccer M,N-23
Windsor Boys & Girls Club K-23
Windsor Cha Commerce M-23
Windsor Comm Ctr L-23
Windsor Creek Elem L-23
Windsor Fire Sta #1 M-24
Windsor Fire Sta #2 L-22
Windsor Golf Club N-22,23
Windsor High Sch M-22
Windsor Land MHP L-22,23
Windsor Library L-22
Windsor Middle Sch K,L-23
Windsor Mobile Country Club M-23
Windsor Oaks Academy M-22
Windsor Police Dept L-22
Windsor Post Office L-23
Windsor Pub Works Departtment M-22
Windsor Senior Ctr L-23
Windsor Town Green L-22
Windsor Town Hall L-22

APPENDIX D

Sanitary Sewer Collection System Asset Inventory

Collection System Asset Inventory Description

The Town of Windsor is transitioning to a GIS-based collection system mapping system, using a GIS consultant to create a GIS from the existing CAD-based maps. In addition to providing more powerful mapping options, the collection system GIS can collect, store, and organize data for each individual piece of infrastructure in the collection system. This data will include attribute data such as pipeline length, diameter, and slope, as well as various O&M data such as cleaning frequency and inspection result history. As an Information Management (IM) tool, the collection system GIS will enhance the town's ability to proactively manage the collection system, and to visually track and display collection system management activities and successful implementation of O&M goals.

In the preliminary asset inventory contained in the following table, gravity mains are identified by their upstream and downstream structures. Therefore, the Facility ID for each gravity main is a combination of the Facility ID for the upstream structure and the Facility ID for the downstream structure. In most cases, gravity mains are found between two manholes, so the Facility IDs for these structures will refer to manholes. Typically, the Town of Windsor identifies manholes using a prefix of "N" or "S" before a number, although a few simply have numbers.

Some manholes in the preliminary GIS did not have Facility IDs provided. In these cases, West Yost created a temporary Facility ID consisting of a prefix of "W" before a number. This temporary Facility ID is intended to be replaced by a standard Town-generated Facility ID as the GIS transition is completed.

In some cases, gravity mains in the preliminary GIS were found between clean-outs, rather than manholes. As there were no Facility IDs given for clean-outs in the GIS, West Yost created a temporary Facility ID for the clean-outs consisting of a prefix of "CO-" and a number. These Facility IDs can be replaced with Town standard Facility IDs as the GIS transition is completed.

Finally, because the GIS is in its preliminary stages, there are areas in which the GIS is incomplete, and for which manholes and/or clean-outs are missing from the ends of gravity mains in the GIS. In these cases the structures for the gravity main are indicated as "Unk," which indicates unknown. These incomplete areas will be completed and rectified as the GIS transition is completed by the Town of Windsor.

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
4A_54	4A	54	296		8				Regular (5-year)	Yes
4A_W826	4A	W826	70		8				Regular (5-year)	No
4B_Unk	4B	Unk	52		6				Regular (5-year)	No
4D_4B	4D	4B	258		6				Regular (5-year)	No
4E_4D	4E	4D	136		6				Regular (5-year)	No
CO-100_W216	CO-100	W216	487		8				Regular (5-year)	No
CO-101_S331	CO-101	S331	77		8				Regular (5-year)	No
CO-102_Unk	CO-102	Unk	16		6				Regular (5-year)	No
CO-107_S42B	CO-107	S42B	116		6				Regular (5-year)	No
CO-108_W136	CO-108	W136	81		6				Regular (5-year)	No
CO-109_S43B	CO-109	S43B	227		6				Regular (5-year)	No
CO-110_Unk	CO-110	Unk	135		14				Regular (5-year)	No
CO-111_W144	CO-111	W144	176		8				Regular (5-year)	No
CO-112_W208	CO-112	W208	644		8				Regular (5-year)	No
CO-113_Unk	CO-113	Unk	29		8				Regular (5-year)	No
CO-114_S312A	CO-114	S312A	41		6				Regular (5-year)	No
CO-115_S312A	CO-115	S312A	134		6				Regular (5-year)	No
CO-116_S312A	CO-116	S312A	139		6				Regular (5-year)	No
CO-117_CO-116	CO-117	CO-116	97		4				Regular (5-year)	No
CO-118_S315	CO-118	S315	88		8				Regular (5-year)	No
CO-119_CO-118	CO-119	CO-118	69		8				Regular (5-year)	No
CO-12_N33A	CO-12	N33A	250		10				Regular (5-year)	No
CO-120_Unk	CO-120	Unk	12		8				Regular (5-year)	No
CO-121_S351	CO-121	S351	376		8				Regular (5-year)	No
CO-122_W86	CO-122	W86	174		6				Regular (5-year)	No
CO-128_Unk	CO-128	Unk	51		4				Regular (5-year)	No
CO-13_W3	CO-13	W3	84		8				Regular (5-year)	No
CO-135_W169	CO-135	W169	74		10				Regular (5-year)	Yes
CO-136_Unk	CO-136	Unk	54		6				Regular (5-year)	No
CO-137_CO-136	CO-137	CO-136	161		6				Regular (5-year)	No
CO-138_CO-137	CO-138	CO-137	117		6				Regular (5-year)	No
CO-139_W182	CO-139	W182	50		6				Regular (5-year)	No
CO-14_W5	CO-14	W5	125		8				Regular (5-year)	No
CO-142_Unk	CO-142	Unk	169		6				Regular (5-year)	No
CO-143_CO-142	CO-143	CO-142	280		6				Regular (5-year)	No
CO-144_S353	CO-144	S353	147		8				Regular (5-year)	No
CO-145_S352	CO-145	S352	340		8				Regular (5-year)	No
CO-146_S355	CO-146	S355	34		8				Regular (5-year)	No
CO-147_S356	CO-147	S356	255		8				Regular (5-year)	No
CO-148_Unk	CO-148	Unk	13		6				Regular (5-year)	No
CO-149_Unk	CO-149	Unk	12		6				Regular (5-year)	No
CO-15_W8	CO-15	W8	107		8				Regular (5-year)	No
CO-150_Unk	CO-150	Unk	15		6				Regular (5-year)	No
CO-151_Unk	CO-151	Unk	12		6				Regular (5-year)	No
CO-152_Unk	CO-152	Unk	10		6				Regular (5-year)	No
CO-153_Unk	CO-153	Unk	41		6				Regular (5-year)	No
CO-154_Unk	CO-154	Unk	40		6				Regular (5-year)	No
CO-155_S130K	CO-155	S130K	115		6				Regular (5-year)	No
CO-156_S130P	CO-156	S130P	213		6				Regular (5-year)	No
CO-157_CO-158	CO-157	CO-158	83		6				Regular (5-year)	No
CO-158_CO-159	CO-158	CO-159	66		6				Regular (5-year)	No
CO-159_W195	CO-159	W195	32		6				Regular (5-year)	No
CO-16_W9	CO-16	W9	256		8				Regular (5-year)	No
CO-160_W196	CO-160	W196	93		6				Regular (5-year)	No
CO-161_CO-160	CO-161	CO-160	26		6				Regular (5-year)	No
CO-162_Unk	CO-162	Unk	20		4				Regular (5-year)	No
CO-163_Unk	CO-163	Unk	10		6				Regular (5-year)	No
CO-164_Unk	CO-164	Unk	13		4				Regular (5-year)	No
CO-165_Unk	CO-165	Unk	18		4				Regular (5-year)	No
CO-166_Unk	CO-166	Unk	98		4				Regular (5-year)	No
CO-167_S175	CO-167	S175	207		6				Regular (5-year)	No
CO-168_S173B	CO-168	S173B	318		6				Regular (5-year)	No
CO-169_W98	CO-169	W98	153		6				Regular (5-year)	No
CO-17_N33	CO-17	N33	65		6				Regular (5-year)	No
CO-170_W200	CO-170	W200	329		6				Regular (5-year)	No
CO-171_S53B	CO-171	S53B	237		6				Regular (5-year)	No
CO-172_W207	CO-172	W207	166		8				Regular (5-year)	No
CO-173_S169	CO-173	S169	220		6				Regular (5-year)	No
CO-174_S130M	CO-174	S130M	79		6				Regular (5-year)	No
CO-175_S130F	CO-175	S130F	291		6				Regular (5-year)	No
CO-176_S148	CO-176	S148	391		6				Regular (5-year)	No
CO-177_S149	CO-177	S149	311		6				Regular (5-year)	No
CO-178_S156	CO-178	S156	72		6				Regular (5-year)	No
CO-179_Unk	CO-179	Unk	164		6				Regular (5-year)	No
CO-180_S163	CO-180	S163	131		6				Regular (5-year)	No
CO-181_W217	CO-181	W217	96		8				Regular (5-year)	No
CO-183_W220	CO-183	W220	138		8				6-month	No
CO-184_W223	CO-184	W223	76		8				6-month	No
CO-185_W230	CO-185	W230	334		8				Regular (5-year)	No
CO-186_W232	CO-186	W232	144		8				Regular (5-year)	No
CO-187_W237	CO-187	W237	121		8				Regular (5-year)	No
CO-188_W252	CO-188	W252	99		8				Regular (5-year)	No
CO-189_W260	CO-189	W260	172		8				Regular (5-year)	No
CO-190_Unk	CO-190	Unk	32		8				Regular (5-year)	Yes
CO-191_W262	CO-191	W262	91		8				Regular (5-year)	Yes
CO-193_W270	CO-193	W270	126		8				Regular (5-year)	No
CO-194_W271	CO-194	W271	131		8				Regular (5-year)	No
CO-195_S60G	CO-195	S60G	270		6				Regular (5-year)	No
CO-196_W276	CO-196	W276	253		6				Regular (5-year)	No
CO-197_S60C	CO-197	S60C	323		6				Regular (5-year)	No
CO-198_W277	CO-198	W277	106		6				Regular (5-year)	No
CO-199_W278	CO-199	W278	346		6				Regular (5-year)	No
CO-2_N37C	CO-2	N37C	174		6				Regular (5-year)	No
CO-20_Unk	CO-20	Unk	16		6				4-Month Frequency	No
CO-200_W282	CO-200	W282	221		8				Regular (5-year)	No
CO-201_W280	CO-201	W280	215		8				Regular (5-year)	No
CO-202_S18	CO-202	S18	198		6				Regular (5-year)	No
CO-203_S15	CO-203	S15	277		8				Regular (5-year)	No
CO-204_S13A	CO-204	S13A	192		6				Regular (5-year)	No
CO-205_S13C	CO-205	S13C	260		6				Regular (5-year)	No
CO-206_S65B	CO-206	S65B	224		6				Regular (5-year)	No
CO-207_S63F	CO-207	S63F	151		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-208_S63D	CO-208	S63D	255		6				Regular (5-year)	No
CO-209_S63D	CO-209	S63D	100		6				Regular (5-year)	No
CO-21_Unk	CO-21	Unk	14		6				4-Month Frequency	No
CO-210_S63A	CO-210	S63A	119		6				Regular (5-year)	No
CO-211_S64T	CO-211	S64T	99		6				Regular (5-year)	No
CO-212_S64J	CO-212	S64J	213		6				Regular (5-year)	No
CO-213_S64P	CO-213	S64P	156		6				Regular (5-year)	No
CO-214_S64Q	CO-214	S64Q	126		6				Regular (5-year)	No
CO-215_S64R	CO-215	S64R	264		8				Regular (5-year)	No
CO-216_Unk	CO-216	Unk	50		8				Regular (5-year)	No
CO-217_CO-218	CO-217	CO-218	47		4				Regular (5-year)	No
CO-218_S39	CO-218	S39	147		6				Regular (5-year)	No
CO-219_S314	CO-219	S314	89		8				Regular (5-year)	No
CO-22_Unk	CO-22	Unk	24		6				4-Month Frequency	No
CO-220_W290	CO-220	W290	29		8				Regular (5-year)	No
CO-221_W292	CO-221	W292	191		8				Regular (5-year)	No
CO-222_W295	CO-222	W295	139		8				Regular (5-year)	No
CO-223_W297	CO-223	W297	92		8				Regular (5-year)	No
CO-224_W298	CO-224	W298	218		6				Regular (5-year)	No
CO-225_W296	CO-225	W296	182		8				Regular (5-year)	No
CO-226_W300	CO-226	W300	202		6				Regular (5-year)	No
CO-227_W300	CO-227	W300	205		6				Regular (5-year)	No
CO-228_S11E	CO-228	S11E	200		6				Regular (5-year)	No
CO-229_S11D	CO-229	S11D	282		6				Regular (5-year)	No
CO-23_W18	CO-23	W18	107		6				4-Month Frequency	No
CO-230_S11C	CO-230	S11C	194		6				Regular (5-year)	No
CO-231_S19A	CO-231	S19A	264		6				4-Month Frequency	No
CO-232_CO-233	CO-232	CO-233	632		6				Regular (5-year)	No
CO-233_4E	CO-233	4E	231		6				Regular (5-year)	No
CO-234_W312	CO-234	W312	83		10				Regular (5-year)	No
CO-235_S389	CO-235	S389	191		10				Regular (5-year)	No
CO-236_S386	CO-236	S386	357		6				Regular (5-year)	No
CO-237_W318	CO-237	W318	202		6				Regular (5-year)	No
CO-238_W319	CO-238	W319	113		6				Regular (5-year)	No
CO-239_W317	CO-239	W317	300		6				Regular (5-year)	No
CO-24_W21	CO-24	W21	95		6				4-Month Frequency	No
CO-240_W320	CO-240	W320	192		6				Regular (5-year)	No
CO-241_S403	CO-241	S403	88		6				Regular (5-year)	No
CO-242_S397	CO-242	S397	120		6				Regular (5-year)	No
CO-243_S401	CO-243	S401	204		8				Regular (5-year)	No
CO-244_S401	CO-244	S401	228		6				Regular (5-year)	No
CO-245_S398	CO-245	S398	230		6				Regular (5-year)	No
CO-246_S404	CO-246	S404	309		6				Regular (5-year)	No
CO-247_S406	CO-247	S406	216		6				Regular (5-year)	No
CO-248_S405	CO-248	S405	137		8				Regular (5-year)	No
CO-249_W329	CO-249	W329	301		6				Regular (5-year)	No
CO-25_W23	CO-25	W23	95		6				4-Month Frequency	No
CO-250_W330	CO-250	W330	280		6				Regular (5-year)	No
CO-251_S419	CO-251	S419	121		6				Regular (5-year)	No
CO-252_W326	CO-252	W326	154		8				Regular (5-year)	No
CO-253_Unk	CO-253	Unk	82		4				Regular (5-year)	No
CO-254_Unk	CO-254	Unk	67		4				Regular (5-year)	No
CO-255_S14	CO-255	S14	253		6				Regular (5-year)	No
CO-257_W335	CO-257	W335	372		6				Regular (5-year)	No
CO-258_S35B	CO-258	S35B	196		6				Regular (5-year)	No
CO-259_S33	CO-259	S33	216		6				Regular (5-year)	No
CO-26_N25	CO-26	N25	207		10				4-Month Frequency	No
CO-260_S31	CO-260	S31	49		6				Regular (5-year)	No
CO-261_S20B	CO-261	S20B	291		6				4-Month Frequency	No
CO-262_S19B	CO-262	S19B	309		6				4-Month Frequency	No
CO-263_S19E	CO-263	S19E	298		6				4-Month Frequency	No
CO-264_S19D	CO-264	S19D	369		6				4-Month Frequency	No
CO-265_S19F	CO-265	S19F	353		6				4-Month Frequency	No
CO-266_W338	CO-266	W338	67		6				4-month	No
CO-269_Unk	CO-269	Unk	16		6				4-Month Frequency	No
CO-27_N23R	CO-27	N23R	97		6				Regular (5-year)	No
CO-270_S22G	CO-270	S22G	173		6				Regular (5-year)	No
CO-271_S22D	CO-271	S22D	119		6				Regular (5-year)	No
CO-272_W346	CO-272	W346	74		6				Regular (5-year)	No
CO-273_Unk	CO-273	Unk	15		4				Regular (5-year)	No
CO-274_Unk	CO-274	Unk	17		4				Regular (5-year)	No
CO-275_Unk	CO-275	Unk	12		4				Regular (5-year)	No
CO-276_Unk	CO-276	Unk	78		4				Regular (5-year)	No
CO-277_S23I	CO-277	S23I	68		6				Regular (5-year)	No
CO-278_S23C	CO-278	S23C	187		6				Regular (5-year)	No
CO-279_Unk	CO-279	Unk	9		6				Regular (5-year)	No
CO-28_N23R	CO-28	N23R	22		6				Regular (5-year)	No
CO-280_S23G	CO-280	S23G	219		6				Regular (5-year)	No
CO-281_S23H	CO-281	S23H	98		6				Regular (5-year)	No
CO-282_S23H	CO-282	S23H	206		6				Regular (5-year)	No
CO-283_W349	CO-283	W349	211		6				Regular (5-year)	No
CO-284_Unk	CO-284	Unk	36		6				Regular (5-year)	Yes
CO-285_W351	CO-285	W351	211		8				Regular (5-year)	Yes
CO-286_W357	CO-286	W357	65		8				Regular (5-year)	No
CO-287_W358	CO-287	W358	100		8				Regular (5-year)	Yes
CO-288_W365	CO-288	W365	198		8				Regular (5-year)	No
CO-289_Unk	CO-289	Unk	18		6				Regular (5-year)	No
CO-29_N230	CO-29	N230	106		6				Regular (5-year)	No
CO-290_Unk	CO-290	Unk	65		6				Regular (5-year)	No
CO-291_Unk	CO-291	Unk	14		6				Regular (5-year)	No
CO-292_CO-291	CO-292	CO-291	100		6				Regular (5-year)	No
CO-293_CO-292	CO-293	CO-292	99		6				Regular (5-year)	No
CO-294_Unk	CO-294	Unk	21		6				Regular (5-year)	No
CO-295_Unk	CO-295	Unk	90		6				Regular (5-year)	No
CO-296_Unk	CO-296	Unk	194		6				Regular (5-year)	No
CO-297_Unk	CO-297	Unk	14		6				Regular (5-year)	No
CO-298_Unk	CO-298	Unk	12		4				Regular (5-year)	Yes
CO-3_W1	CO-3	W1	182		6				Regular (5-year)	No
CO-30_W38	CO-30	W38	187		8				6-month	No
CO-300_Unk	CO-300	Unk	27		2				Regular (5-year)	Yes
CO-301_Unk	CO-301	Unk	52		2				Regular (5-year)	Yes
CO-302_W366	CO-302	W366	22		6				Regular (5-year)	No

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Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-303_Unk	CO-303	Unk	61		6				Regular (5-year)	No
CO-304_Unk	CO-304	Unk	42		6				Regular (5-year)	No
CO-305_Unk	CO-305	Unk	33		6				Regular (5-year)	No
CO-306_CO-305	CO-306	CO-305	85		6				Regular (5-year)	No
CO-307_Unk	CO-307	Unk	25		6				Regular (5-year)	No
CO-308_Unk	CO-308	Unk	115		6				Regular (5-year)	No
CO-309_Unk	CO-309	Unk	74		6				Regular (5-year)	No
CO-31_Unk	CO-31	Unk	67		6				Regular (5-year)	No
CO-317_S84	CO-317	S84	168		4				Regular (5-year)	No
CO-318_S85	CO-318	S85	164		4				Regular (5-year)	No
CO-319_Unk	CO-319	Unk	157		6				Regular (5-year)	No
CO-32_N23V	CO-32	N23V	153		6				Regular (5-year)	No
CO-320_S86	CO-320	S86	146		6				Regular (5-year)	Yes
CO-321_W471	CO-321	W471	266		6				6-Month Frequency	No
CO-322_W372	CO-322	W372	193		8				Regular (5-year)	No
CO-323_W374	CO-323	W374	247		8				Regular (5-year)	No
CO-324_W375	CO-324	W375	284		8				Regular (5-year)	No
CO-325_N2C	CO-325	N2C	258		6				Regular (5-year)	No
CO-326_N3D	CO-326	N3D	182		6				Regular (5-year)	No
CO-327_N3D	CO-327	N3D	196		6				Regular (5-year)	No
CO-328_N2E	CO-328	N2E	209		6				Regular (5-year)	No
CO-329_W380	CO-329	W380	107		8				Regular (5-year)	No
CO-33_N14B	CO-33	N14B	75		6				Regular (5-year)	No
CO-330_W898	CO-330	W898	364		8				Regular (5-year)	No
CO-331_W382	CO-331	W382	165		8				Regular (5-year)	No
CO-332_W397	CO-332	W397	243		8				Regular (5-year)	No
CO-333_N4A	CO-333	N4A	242		6				Regular (5-year)	No
CO-334_CO-335	CO-334	CO-335	90		6				Regular (5-year)	No
CO-335_CO-336	CO-335	CO-336	83		6				Regular (5-year)	No
CO-336_CO-337	CO-336	CO-337	111		6				Regular (5-year)	No
CO-337_W383	CO-337	W383	99		6				Regular (5-year)	No
CO-338_Unk	CO-338	Unk	27		4				Regular (5-year)	No
CO-339_CO-338	CO-339	CO-338	152		4				Regular (5-year)	No
CO-34_Unk	CO-34	Unk	15		6				Regular (5-year)	No
CO-340_Unk	CO-340	Unk	98		8				Regular (5-year)	Yes
CO-341_W403	CO-341	W403	208		8				Regular (5-year)	No
CO-342_W403	CO-342	W403	187		8				Regular (5-year)	No
CO-343_W406	CO-343	W406	61		4				Regular (5-year)	Yes
CO-344_W406	CO-344	W406	63		4				Regular (5-year)	Yes
CO-345_W406	CO-345	W406	66		4				Regular (5-year)	Yes
CO-346_N47M	CO-346	N47M	139		6				Regular (5-year)	No
CO-347_N47F	CO-347	N47F	196		6				Regular (5-year)	No
CO-348_N47J	CO-348	N47J	161		6				Regular (5-year)	No
CO-349_Unk	CO-349	Unk	151		4				Regular (5-year)	No
CO-35_Unk	CO-35	Unk	36		6				Regular (5-year)	No
CO-350_W409	CO-350	W409	206		8				Regular (5-year)	No
CO-351_W332	CO-351	W332	282		6				Regular (5-year)	No
CO-352_S418	CO-352	S418	163		6				Regular (5-year)	No
CO-353_S413	CO-353	S413	159		6				Regular (5-year)	No
CO-354_S413	CO-354	S413	206		6				Regular (5-year)	No
CO-355_W422	CO-355	W422	53		8				Regular (5-year)	No
CO-356_CO-355	CO-356	CO-355	92		8				Regular (5-year)	No
CO-357_W428	CO-357	W428	141		8				Regular (5-year)	No
CO-358_S36	CO-358	S36	331		6				Regular (5-year)	No
CO-359_S37	CO-359	S37	187		6				Regular (5-year)	No
CO-36_W64	CO-36	W64	186		8				6-month	No
CO-360_CO-359	CO-360	CO-359	126		6				Regular (5-year)	No
CO-361_S30A	CO-361	S30A	224		6				Regular (5-year)	No
CO-362_W435	CO-362	W435	169		6				Regular (5-year)	No
CO-363_S98B	CO-363	S98B	179		6				12-Month Frequency	No
CO-364_S96B	CO-364	S96B	225		6				12-Month Frequency	No
CO-365_S99A	CO-365	S99A	109		6				6-month	No
CO-366_S99C	CO-366	S99C	54		6				6-month	No
CO-367_S104A	CO-367	S104A	114		6				6-month	No
CO-368_S105A	CO-368	S105A	83		6				6-month	No
CO-369_Unk	CO-369	Unk	437		6				Regular (5-year)	No
CO-37_W64	CO-37	W64	135		8				6-month	No
CO-370_S22H	CO-370	S22H	287		6				Regular (5-year)	No
CO-371_S203	CO-371	S203	153		6				4-Month Frequency	No
CO-372_S203D	CO-372	S203D	55		6				4-Month Frequency	No
CO-373_Unk	CO-373	Unk	123		6				Regular (5-year)	Yes
CO-374_S202B	CO-374	S202B	181		6				Regular (5-year)	No
CO-375_S202B	CO-375	S202B	207		6				Regular (5-year)	No
CO-377_Unk	CO-377	Unk	24		8				Regular (5-year)	No
CO-378_Unk	CO-378	Unk	25		4				Regular (5-year)	No
CO-379_Unk	CO-379	Unk	10		4				Regular (5-year)	No
CO-38_W61	CO-38	W61	203		8				6-month	No
CO-380_Unk	CO-380	Unk	9		4				Regular (5-year)	No
CO-381_W454	CO-381	W454	127		8				Regular (5-year)	No
CO-382_CO-492	CO-382	CO-492	91		6				6-month	No
CO-383_W454	CO-383	W454	149		8				Regular (5-year)	Yes
CO-384_W455	CO-384	W455	124		8				Regular (5-year)	No
CO-385_W455	CO-385	W455	141		8				Regular (5-year)	Yes
CO-386_W459	CO-386	W459	45		6				Regular (5-year)	Yes
CO-387_W462	CO-387	W462	176		6				Regular (5-year)	No
CO-388_W469	CO-388	W469	36		6				Regular (5-year)	No
CO-389_CO-388	CO-389	CO-388	47		6				Regular (5-year)	No
CO-39_W81	CO-39	W81	199		8				4-Month Frequency	No
CO-390_Unk	CO-390	Unk	25		6				Regular (5-year)	No
CO-391_CO-390	CO-391	CO-390	47		6				Regular (5-year)	No
CO-392_W471	CO-392	W471	123		6				6-Month Frequency	No
CO-393_W476	CO-393	W476	38		4				Regular (5-year)	No
CO-394_Unk	CO-394	Unk	13		4				Regular (5-year)	No
CO-395_Unk	CO-395	Unk	17		8				Regular (5-year)	No
CO-396_Unk	CO-396	Unk	55		4				Regular (5-year)	No
CO-397_Unk	CO-397	Unk	11		4				Regular (5-year)	No
CO-398_W479	CO-398	W479	238		4				Regular (5-year)	Yes
CO-399_N17B	CO-399	N17B	53		6				Regular (5-year)	No
CO-40_W81	CO-40	W81	111		8				4-Month Frequency	No
CO-400_N17A	CO-400	N17A	22		8				Regular (5-year)	No
CO-401_Unk	CO-401	Unk	74		4				Regular (5-year)	No
CO-408_W487	CO-408	W487	29		6				6-month	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-409_Unk	CO-409	Unk	63		6				4-Month Frequency	No
CO-41_W73	CO-41	W73	91		8				4-Month Frequency	No
CO-410_Unk	CO-410	Unk	96		8				Regular (5-year)	No
CO-411_CO-410	CO-411	CO-410	96		8				Regular (5-year)	No
CO-412_Unk	CO-412	Unk	61		6				Regular (5-year)	No
CO-413_Unk	CO-413	Unk	24		6				Regular (5-year)	No
CO-414_Unk	CO-414	Unk	42		6				Regular (5-year)	No
CO-415_N7B	CO-415	N7B	20		6				Regular (5-year)	No
CO-416_CO-415	CO-416	CO-415	29		6				Regular (5-year)	No
CO-417_CO-416	CO-417	CO-416	62		6				Regular (5-year)	No
CO-42_W75	CO-42	W75	37		21				Regular (5-year)	Yes
CO-420_N303	CO-420	N303	58		8				4-Month Frequency	No
CO-421_N7D	CO-421	N7D	143		6				4-Month Frequency	No
CO-422_W507	CO-422	W507	301		6				4-Month Frequency	No
CO-423_W506	CO-423	W506	152		6				4-Month Frequency	No
CO-424_N306	CO-424	N306	99		8				6-month	No
CO-425_W508	CO-425	W508	268		6				Regular (5-year)	No
CO-426_N20C	CO-426	N20C	330		6				Regular (5-year)	No
CO-427_N43	CO-427	N43	238		6				Regular (5-year)	Yes
CO-428_W515	CO-428	W515	225		6				Regular (5-year)	No
CO-429_N20F	CO-429	N20F	223		6				Regular (5-year)	Yes
CO-43_Unk	CO-43	Unk	20		6				Regular (5-year)	No
CO-430_N21C	CO-430	N21C	89		6				Regular (5-year)	Yes
CO-431_N44	CO-431	N44	506		8				Regular (5-year)	Yes
CO-432_N45E	CO-432	N45E	266		8				Regular (5-year)	Yes
CO-433_N45I	CO-433	N45I	227		6				Regular (5-year)	No
CO-434_W520	CO-434	W520	177		8				Regular (5-year)	No
CO-435_N45K	CO-435	N45K	147		8				Regular (5-year)	No
CO-436_Unk	CO-436	Unk	40		4				Regular (5-year)	No
CO-437_N40J	CO-437	N40J	171		6				Regular (5-year)	No
CO-438_N40E	CO-438	N40E	96		6				Regular (5-year)	No
CO-439_W523	CO-439	W523	248		8				Regular (5-year)	No
CO-44_Unk	CO-44	Unk	117		4				Regular (5-year)	Yes
CO-440_N40K	CO-440	N40K	174		6				Regular (5-year)	No
CO-441_W528	CO-441	W528	107		8				Regular (5-year)	No
CO-442_W528	CO-442	W528	193		8				Regular (5-year)	No
CO-443_W530	CO-443	W530	215		6				Regular (5-year)	No
CO-444_N40Q	CO-444	N40Q	318		6				Regular (5-year)	No
CO-445_N40I	CO-445	N40I	219		6				Regular (5-year)	No
CO-446_N40R	CO-446	N40R	311		6				Regular (5-year)	No
CO-447_N40T	CO-447	N40T	95		6				Regular (5-year)	No
CO-448_W532	CO-448	W532	217		6				Regular (5-year)	No
CO-449_N40S	CO-449	N40S	375		6				Regular (5-year)	No
CO-45_Unk	CO-45	Unk	9		6				Regular (5-year)	No
CO-450_W536	CO-450	W536	128		6				Regular (5-year)	No
CO-451_N49E	CO-451	N49E	172		6				6-month	No
CO-452_N49E	CO-452	N49E	127		6				6-month	No
CO-453_W542	CO-453	W542	140		6				Regular (5-year)	No
CO-454_W544	CO-454	W544	192		8				Regular (5-year)	No
CO-455_W544	CO-455	W544	86		8				Regular (5-year)	No
CO-456_W551	CO-456	W551	209		6				Regular (5-year)	No
CO-457_W548	CO-457	W548	296		6				Regular (5-year)	No
CO-458_W553	CO-458	W553	216		6				Regular (5-year)	No
CO-459_W556	CO-459	W556	344		6				Regular (5-year)	No
CO-46_W77	CO-46	W77	139		8				Regular (5-year)	No
CO-460_W558	CO-460	W558	187		6				Regular (5-year)	No
CO-461_W557	CO-461	W557	121		6				Regular (5-year)	No
CO-462_W560	CO-462	W560	123		6				Regular (5-year)	No
CO-464_W561	CO-464	W561	224		6				Regular (5-year)	No
CO-465_W563	CO-465	W563	168		6				Regular (5-year)	No
CO-466_S112T	CO-466	S112T	141		6				Regular (5-year)	No
CO-467_S112N	CO-467	S112N	102		6				Regular (5-year)	No
CO-468_S112K	CO-468	S112K	283		6				Regular (5-year)	No
CO-469_W585	CO-469	W585	239		6				Regular (5-year)	No
CO-47_Unk	CO-47	Unk	171		4				Regular (5-year)	No
CO-470_W575	CO-470	W575	245		6				Regular (5-year)	No
CO-471_W582	CO-471	W582	277		6				Regular (5-year)	No
CO-472_W586	CO-472	W586	233		6				Regular (5-year)	No
CO-473_W586	CO-473	W586	313		6				Regular (5-year)	No
CO-474_W587	CO-474	W587	401		6				Regular (5-year)	No
CO-475_S277	CO-475	S277	253		6				Regular (5-year)	No
CO-476_S274	CO-476	S274	202		4				Regular (5-year)	No
CO-477_CO-476	CO-477	CO-476	98		4				Regular (5-year)	No
CO-478_S273	CO-478	S273	157		6				Regular (5-year)	No
CO-479_S272	CO-479	S272	212		6				Regular (5-year)	No
CO-48_Unk	CO-48	Unk	183		4				Regular (5-year)	No
CO-480_S271	CO-480	S271	208		6				Regular (5-year)	No
CO-481_W589	CO-481	W589	94		6				Regular (5-year)	Yes
CO-482_W591	CO-482	W591	172		6				Regular (5-year)	No
CO-483_W596	CO-483	W596	176		6				Regular (5-year)	No
CO-484_W596	CO-484	W596	279		6				Regular (5-year)	No
CO-485_W595	CO-485	W595	268		6				Regular (5-year)	No
CO-486_W590	CO-486	W590	134		8				Regular (5-year)	Yes
CO-487_W592	CO-487	W592	228		6				Regular (5-year)	No
CO-488_W593	CO-488	W593	392		6				Regular (5-year)	Yes
CO-489_W594	CO-489	W594	142		6				Regular (5-year)	No
CO-49_Unk	CO-49	Unk	143		4				Regular (5-year)	No
CO-490_W594	CO-490	W594	274		6				Regular (5-year)	No
CO-491_W598	CO-491	W598	48		6				Regular (5-year)	No
CO-492_Unk	CO-492	Unk	106		6				6-month	No
CO-493_S108C	CO-493	S108C	150		6				6-month	No
CO-494_S109B	CO-494	S109B	72		6				6-month	No
CO-495_S109D	CO-495	S109D	270		6				6-month	No
CO-496_S110A	CO-496	S110A	249		6				6-month	No
CO-497_S112B	CO-497	S112B	18		6				12-Month Frequency	No
CO-498_S115	CO-498	S115	183		6				6-month	No
CO-499_S121B	CO-499	S121B	148		6				6-month	No
CO-50_W85	CO-50	W85	176		6				Regular (5-year)	No
CO-500_S122A	CO-500	S122A	97		6				6-month	No
CO-501_S106C	CO-501	S106C	72		6				6-month	Yes
CO-502_S211D	CO-502	S211D	341		6				Regular (5-year)	Yes
CO-503_S211B	CO-503	S211B	429		6				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-504_S211C	CO-504	S211C	339		6				Regular (5-year)	No
CO-505_S211C	CO-505	S211C	430		6				Regular (5-year)	Yes
CO-506_S212A	CO-506	S212A	382		6				Regular (5-year)	Yes
CO-507_W607	CO-507	W607	198		8				Regular (5-year)	No
CO-508_S256	CO-508	S256	200		8				Regular (5-year)	No
CO-509_W609	CO-509	W609	192		8				Regular (5-year)	No
CO-51_W95	CO-51	W95	127		6				Regular (5-year)	No
CO-510_S219	CO-510	S219	140		6				Regular (5-year)	No
CO-511_W613	CO-511	W613	204		8				Regular (5-year)	No
CO-512_W613	CO-512	W613	86		8				Regular (5-year)	No
CO-513_W636	CO-513	W636	271		8				Regular (5-year)	No
CO-514_W638	CO-514	W638	264		8				Regular (5-year)	Yes
CO-515_S224	CO-515	S224	126		6				Regular (5-year)	Yes
CO-516_S227	CO-516	S227	147		6				Regular (5-year)	No
CO-517_W620	CO-517	W620	142		6				Regular (5-year)	No
CO-518_W620	CO-518	W620	268		6				Regular (5-year)	No
CO-519_W621	CO-519	W621	54		6				Regular (5-year)	No
CO-520_W626	CO-520	W626	99		8				Regular (5-year)	No
CO-521_W637	CO-521	W637	145		8				Regular (5-year)	Yes
CO-522_W638	CO-522	W638	136		8				Regular (5-year)	Yes
CO-523_W642	CO-523	W642	85		4				Regular (5-year)	No
CO-524_CO-523	CO-524	CO-523	98		4				Regular (5-year)	No
CO-525_CO-524	CO-525	CO-524	31		4				Regular (5-year)	No
CO-526_W644	CO-526	W644	268		8				Regular (5-year)	No
CO-527_W646	CO-527	W646	121		6				Regular (5-year)	No
CO-528_CO-527	CO-528	CO-527	115		6				Regular (5-year)	No
CO-529_CO-528	CO-529	CO-528	138		6				Regular (5-year)	No
CO-53_Unk	CO-53	Unk	184		8				Regular (5-year)	No
CO-530_W647	CO-530	W647	145		6				Regular (5-year)	No
CO-531_W647	CO-531	W647	146		6				Regular (5-year)	No
CO-532_W658	CO-532	W658	198		8				Regular (5-year)	No
CO-533_Unk	CO-533	Unk	19		6				Regular (5-year)	No
CO-534_Unk	CO-534	Unk	84		4				Regular (5-year)	No
CO-535_N171	CO-535	N171	342		6				Regular (5-year)	No
CO-54_W96	CO-54	W96	266		6				Regular (5-year)	No
CO-544_CO-545	CO-544	CO-545	81		8				Regular (5-year)	No
CO-545_Unk	CO-545	Unk	70		8				Regular (5-year)	No
CO-546_N9B	CO-546	N9B	97		6				Regular (5-year)	No
CO-547_N9B	CO-547	N9B	71		6				Regular (5-year)	No
CO-548_CO-547	CO-548	CO-547	67		6				Regular (5-year)	No
CO-549_N22L	CO-549	N22L	187		6				Regular (5-year)	No
CO-55_Unk	CO-55	Unk	74		4				Regular (5-year)	No
CO-550_N8C	CO-550	N8C	292		6				4-Month Frequency	Yes
CO-551_N22H	CO-551	N22H	105		6				Regular (5-year)	No
CO-552_N22P	CO-552	N22P	271		6				Regular (5-year)	Yes
CO-553_N22E	CO-553	N22E	112		6				Regular (5-year)	No
CO-554_N22I	CO-554	N22I	113		6				Regular (5-year)	No
CO-555_N22R	CO-555	N22R	217		6				Regular (5-year)	No
CO-556_N22I	CO-556	N22I	164		6				Regular (5-year)	No
CO-557_N9D	CO-557	N9D	243		6				4-Month Frequency	Yes
CO-558_N22Q	CO-558	N22Q	180		6				4-Month Frequency	Yes
CO-559_N9G	CO-559	N9G	50		6				Regular (5-year)	Yes
CO-56_Unk	CO-56	Unk	10		4				Regular (5-year)	No
CO-560_CO-559	CO-560	CO-559	29		6				Regular (5-year)	No
CO-561_N9G	CO-561	N9G	54		6				Regular (5-year)	Yes
CO-562_CO-561	CO-562	CO-561	29		6				Regular (5-year)	Yes
CO-563_N10D	CO-563	N10D	248		6				Regular (5-year)	No
CO-564_N10C	CO-564	N10C	56		6				Regular (5-year)	No
CO-565_N23J	CO-565	N23J	287		6				Regular (5-year)	No
CO-566_N23H	CO-566	N23H	149		6				Regular (5-year)	No
CO-567_N22D	CO-567	N22D	172		6				Regular (5-year)	No
CO-568_N22F	CO-568	N22F	189		6				Regular (5-year)	No
CO-569_N22F	CO-569	N22F	276		6				Regular (5-year)	No
CO-57_Unk	CO-57	Unk	77		4				Regular (5-year)	No
CO-570_N45I	CO-570	N45I	391		6				Regular (5-year)	No
CO-571_N50A	CO-571	N50A	265		6				6-month	No
CO-572_N57	CO-572	N57	183		6				12-Month Frequency	No
CO-573_N55	CO-573	N55	370		6				12-Month Frequency	No
CO-574_N24	CO-574	N24	522		6				6-month	No
CO-575_Unk	CO-575	Unk	286		6				Regular (5-year)	No
CO-576_N24B	CO-576	N24B	242		6				4-Month Frequency	No
CO-577_N24B	CO-577	N24B	157		6				4-Month Frequency	No
CO-578_N23D	CO-578	N23D	244		6				Regular (5-year)	No
CO-579_Unk	CO-579	Unk	231		6				Regular (5-year)	No
CO-58_Unk	CO-58	Unk	11		4				Regular (5-year)	No
CO-580_N32A	CO-580	N32A	375		6				Regular (5-year)	No
CO-581_N50F	CO-581	N50F	94		6				12-Month Frequency	No
CO-582_N50H	CO-582	N50H	136		6				12-Month Frequency	No
CO-583_N50H	CO-583	N50H	170		6				12-Month Frequency	No
CO-584_N53C	CO-584	N53C	71		6				12-Month Frequency	No
CO-585_N58	CO-585	N58	417		6				12-Month Frequency	No
CO-586_N54	CO-586	N54	412		6				12-Month Frequency	No
CO-587_N53A	CO-587	N53A	121		6				12-Month Frequency	No
CO-590_N32C	CO-590	N32C	129		6				Regular (5-year)	No
CO-591_CO-17	CO-591	CO-17	46		6				Regular (5-year)	No
CO-592_CO-591	CO-592	CO-591	114		6				Regular (5-year)	No
CO-593_CO-592	CO-593	CO-592	94		6				Regular (5-year)	No
CO-594_CO-593	CO-594	CO-593	26		6				Regular (5-year)	No
CO-595_CO-594	CO-595	CO-594	26		6				Regular (5-year)	No
CO-596_CO-595	CO-596	CO-595	78		6				Regular (5-year)	No
CO-597_N33A	CO-597	N33A	242		6				Regular (5-year)	No
CO-598_N33C	CO-598	N33C	180		6				Regular (5-year)	No
CO-599_N33D	CO-599	N33D	185		6				Regular (5-year)	No
CO-6_Unk	CO-6	Unk	397		6				Regular (5-year)	No
CO-600_N35	CO-600	N35	590		6				Regular (5-year)	No
CO-601_W670	CO-601	W670	127		8				Regular (5-year)	No
CO-602_Unk	CO-602	Unk	34		4				Regular (5-year)	No
CO-603_Unk	CO-603	Unk	27		4				Regular (5-year)	No
CO-604_Unk	CO-604	Unk	25		4				Regular (5-year)	No
CO-605_Unk	CO-605	Unk	26		4				Regular (5-year)	No
CO-606_Unk	CO-606	Unk	47		4				Regular (5-year)	No
CO-607_Unk	CO-607	Unk	32		4				Regular (5-year)	No

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Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-608_Unk	CO-608	Unk	40		4				Regular (5-year)	No
CO-609_Unk	CO-609	Unk	17		4				Regular (5-year)	No
CO-610_Unk	CO-610	Unk	105		3				Regular (5-year)	No
CO-611_CO-610	CO-611	CO-610	97		3				Regular (5-year)	No
CO-612_CO-611	CO-612	CO-611	94		3				Regular (5-year)	No
CO-613_CO-612	CO-613	CO-612	97		3				Regular (5-year)	No
CO-614_CO-613	CO-614	CO-613	98		3				Regular (5-year)	No
CO-615_CO-614	CO-615	CO-614	94		3				Regular (5-year)	No
CO-616_CO-615	CO-616	CO-615	94		3				Regular (5-year)	No
CO-617_CO-616	CO-617	CO-616	101		3				Regular (5-year)	No
CO-618_S114B	CO-618	S114B	233		6				6-month	No
CO-619_W685	CO-619	W685	208		8				Regular (5-year)	No
CO-62_S59	CO-62	S59	290		6				Regular (5-year)	No
CO-620_W687	CO-620	W687	121		8				Regular (5-year)	Yes
CO-621_Unk	CO-621	Unk	54		8				Regular (5-year)	No
CO-622_Unk	CO-622	Unk	159		6				Regular (5-year)	No
CO-623_S259	CO-623	S259	222		8				Regular (5-year)	No
CO-625_W696	CO-625	W696	370		8				Regular (5-year)	No
CO-626_W723	CO-626	W723	358		8				Regular (5-year)	No
CO-627_W700	CO-627	W700	186		8				Regular (5-year)	No
CO-628_W695	CO-628	W695	258		8				Regular (5-year)	No
CO-629_W703	CO-629	W703	213		8				Regular (5-year)	No
CO-63_S47H	CO-63	S47H	105		6				Regular (5-year)	No
CO-630_W706	CO-630	W706	172		8				Regular (5-year)	No
CO-631_W712	CO-631	W712	294		8				Regular (5-year)	Yes
CO-632_S301	CO-632	S301	52		4				Regular (5-year)	Yes
CO-633_S238	CO-633	S238	140		6				Regular (5-year)	Yes
CO-634_S253	CO-634	S253	281		6				Regular (5-year)	No
CO-635_W713	CO-635	W713	191		8				Regular (5-year)	No
CO-636_W717	CO-636	W717	280		8				Regular (5-year)	Yes
CO-637_W723	CO-637	W723	124		8				Regular (5-year)	No
CO-638_W724	CO-638	W724	293		8				Regular (5-year)	No
CO-639_W729	CO-639	W729	120		8				Regular (5-year)	No
CO-64_S47H	CO-64	S47H	242		6				Regular (5-year)	No
CO-640_W731	CO-640	W731	181		8				Regular (5-year)	No
CO-641_W734	CO-641	W734	197		8				Regular (5-year)	No
CO-642_W736	CO-642	W736	237		8				Regular (5-year)	No
CO-643_Unk	CO-643	Unk	48		4				Regular (5-year)	No
CO-644_Unk	CO-644	Unk	30		4				Regular (5-year)	No
CO-645_Unk	CO-645	Unk	13		4				Regular (5-year)	No
CO-646_N31	CO-646	N31	255		6				Regular (5-year)	No
CO-647_Unk	CO-647	Unk	14		6				Regular (5-year)	No
CO-65_S47E	CO-65	S47E	82		6				Regular (5-year)	No
CO-654_S252	CO-654	S252	127		6				Regular (5-year)	No
CO-655_S246	CO-655	S246	336		6				Regular (5-year)	No
CO-656_S245	CO-656	S245	291		6				Regular (5-year)	No
CO-657_S233	CO-657	S233	139		6				Regular (5-year)	No
CO-658_S244	CO-658	S244	124		6				Regular (5-year)	No
CO-659_S229	CO-659	S229	309		6				Regular (5-year)	No
CO-66_W100	CO-66	W100	79		6				Regular (5-year)	No
CO-660_Unk	CO-660	Unk	30		6				Regular (5-year)	No
CO-661_Unk	CO-661	Unk	19		6				Regular (5-year)	No
CO-662_Unk	CO-662	Unk	69		4				Regular (5-year)	No
CO-663_CO-662	CO-663	CO-662	52		4				Regular (5-year)	No
CO-664_Unk	CO-664	Unk	69		4				Regular (5-year)	No
CO-665_CO-664	CO-665	CO-664	52		4				Regular (5-year)	No
CO-666_Unk	CO-666	Unk	72		4				Regular (5-year)	No
CO-667_CO-666	CO-667	CO-666	52		4				Regular (5-year)	No
CO-668_W763	CO-668	W763	202		6				Regular (5-year)	Yes
CO-669_W761	CO-669	W761	137		6				Regular (5-year)	No
CO-67_S56B	CO-67	S56B	355		6				6-Month Frequency	No
CO-670_W765	CO-670	W765	126		6				Regular (5-year)	No
CO-671_W769	CO-671	W769	205		8				Regular (5-year)	Yes
CO-672_W768	CO-672	W768	238		8				Regular (5-year)	Yes
CO-673_W770	CO-673	W770	85		8				Regular (5-year)	Yes
CO-674_W773	CO-674	W773	77		8				Regular (5-year)	Yes
CO-676_W774	CO-676	W774	147		8				Regular (5-year)	No
CO-677_W681	CO-677	W681	335		8				Regular (5-year)	No
CO-678_W774	CO-678	W774	117		8				Regular (5-year)	No
CO-679_W782	CO-679	W782	279		6				Regular (5-year)	Yes
CO-68_Unk	CO-68	Unk	266		6				6-Month Frequency	No
CO-680_W777	CO-680	W777	109		6				Regular (5-year)	Yes
CO-681_W780	CO-681	W780	274		6				Regular (5-year)	Yes
CO-682_W777	CO-682	W777	240		6				Regular (5-year)	Yes
CO-683_W786	CO-683	W786	218		6				Regular (5-year)	No
CO-684_W787	CO-684	W787	219		6				Regular (5-year)	No
CO-685_W788	CO-685	W788	214		6				Regular (5-year)	No
CO-686_W789	CO-686	W789	85		6				Regular (5-year)	No
CO-687_W790	CO-687	W790	119		6				Regular (5-year)	No
CO-688_W795	CO-688	W795	133		6				Regular (5-year)	No
CO-689_W807	CO-689	W807	126		8				Regular (5-year)	Yes
CO-69_S45D	CO-69	S45D	312		6				Regular (5-year)	No
CO-690_W805	CO-690	W805	157		8				Regular (5-year)	No
CO-691_W811	CO-691	W811	217		6				Regular (5-year)	No
CO-692_W812	CO-692	W812	125		6				Regular (5-year)	No
CO-693_W809	CO-693	W809	146		6				Regular (5-year)	No
CO-694_W812	CO-694	W812	192		6				Regular (5-year)	No
CO-695_W755	CO-695	W755	107		6				Regular (5-year)	No
CO-696_S249	CO-696	S249	359		6				Regular (5-year)	No
CO-697_W816	CO-697	W816	280		8				Regular (5-year)	Yes
CO-698_W817	CO-698	W817	135		8				Regular (5-year)	No
CO-699_W824	CO-699	W824	176		8				Regular (5-year)	No
CO-70_S47C	CO-70	S47C	259		6				Regular (5-year)	No
CO-700_W828	CO-700	W828	123		8				Regular (5-year)	No
CO-701_W835	CO-701	W835	203		6				Regular (5-year)	No
CO-702_W840	CO-702	W840	142		8				Regular (5-year)	No
CO-703_W847	CO-703	W847	92		8				Regular (5-year)	No
CO-704_W857	CO-704	W857	147		8				Regular (5-year)	No
CO-705_W857	CO-705	W857	140		8				Regular (5-year)	No
CO-706_W836	CO-706	W836	300		6				Regular (5-year)	No
CO-707_W859	CO-707	W859	78		6				Regular (5-year)	No
CO-708_W860	CO-708	W860	78		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
CO-709_W863	CO-709	W863	115		8				Regular (5-year)	No
CO-71_S47B	CO-71	S47B	63		6				Regular (5-year)	No
CO-710_W863	CO-710	W863	107		8				Regular (5-year)	No
CO-711_W864	CO-711	W864	117		8				Regular (5-year)	No
CO-712_W865	CO-712	W865	77		8				Regular (5-year)	No
CO-713_W866	CO-713	W866	139		8				Regular (5-year)	No
CO-714_W877	CO-714	W877	137		8				Regular (5-year)	No
CO-715_W881	CO-715	W881	76		8				Regular (5-year)	No
CO-716_W884	CO-716	W884	150		8				Regular (5-year)	No
CO-717_Unk	CO-717	Unk	32		8				Regular (5-year)	No
CO-719_W889	CO-719	W889	203		8				Regular (5-year)	No
CO-72_S47B	CO-72	S47B	353		6				Regular (5-year)	No
CO-720_W893	CO-720	W893	83		8				Regular (5-year)	No
CO-721_W894	CO-721	W894	212		8				Regular (5-year)	No
CO-722_W894	CO-722	W894	215		8				Regular (5-year)	No
CO-723_W896	CO-723	W896	129		8				Regular (5-year)	No
CO-724_W896	CO-724	W896	205		8				Regular (5-year)	No
CO-725_W898	CO-725	W898	130		8				Regular (5-year)	No
CO-726_W901	CO-726	W901	228		8				Regular (5-year)	No
CO-727_W901	CO-727	W901	167		8				Regular (5-year)	No
CO-728_W903	CO-728	W903	141		8				Regular (5-year)	No
CO-729_W895	CO-729	W895	405		8				Regular (5-year)	No
CO-73_W101	CO-73	W101	108		6				Regular (5-year)	No
CO-731_W907	CO-731	W907	124		8				Regular (5-year)	No
CO-732_W907	CO-732	W907	150		8				Regular (5-year)	No
CO-733_W910	CO-733	W910	180		8				Regular (5-year)	No
CO-734_W911	CO-734	W911	155		8				Regular (5-year)	No
CO-735_W916	CO-735	W916	241		8				Regular (5-year)	No
CO-736_W919	CO-736	W919	316		8				Regular (5-year)	No
CO-737_W922	CO-737	W922	219		8				Regular (5-year)	No
CO-738_S164	CO-738	S164	93		6				Regular (5-year)	No
CO-739_Unk	CO-739	Unk	16		8				Regular (5-year)	Yes
CO-739_Unk	CO-739	Unk	36		8				Regular (5-year)	Yes
CO-74_W101	CO-74	W101	99		6				Regular (5-year)	No
CO-740_N23N	CO-740	N23N	255		8				Regular (5-year)	No
CO-75_S44C	CO-75	S44C	212		6				Regular (5-year)	No
CO-76_W102	CO-76	W102	238		6				Regular (5-year)	No
CO-77_S44B	CO-77	S44B	321		6				Regular (5-year)	No
CO-78_S44A	CO-78	S44A	207		6				Regular (5-year)	No
CO-79_S43C	CO-79	S43C	324		6				Regular (5-year)	No
CO-80_S46C	CO-80	S46C	127		6				Regular (5-year)	No
CO-81_W104	CO-81	W104	18		6				Regular (5-year)	No
CO-82_W105	CO-82	W105	73		8				Regular (5-year)	No
CO-83_W93	CO-83	W93	211		6				Regular (5-year)	No
CO-84_W91	CO-84	W91	207		6				Regular (5-year)	No
CO-85_W107	CO-85	W107	183		6				Regular (5-year)	No
CO-86_W107	CO-86	W107	141		6				Regular (5-year)	No
CO-87_S43	CO-87	S43	392		6				4-Month Frequency	No
CO-88_S62C	CO-88	S62C	239		6				Regular (5-year)	No
CO-89_W113	CO-89	W113	138		8				6-month	No
CO-90_W114	CO-90	W114	92		8				6-month	No
CO-91_W124	CO-91	W124	99		8				6-month	No
CO-92_Unk	CO-92	Unk	10		8				6-month	No
CO-93_Unk	CO-93	Unk	33		8				6-month	No
CO-94_W221	CO-94	W221	198		8				6-month	No
CO-96_W128	CO-96	W128	132		8				6-month	No
CO-97_W131	CO-97	W131	75		8				Regular (5-year)	No
CO-98_W134	CO-98	W134	100		8				Regular (5-year)	No
CO-99_W133	CO-99	W133	169		8				Regular (5-year)	No
N1_W828	N1	W828	315		10				Regular (5-year)	No
N10_N9C	N10	N9C	49		8				Regular (5-year)	No
N10A_Unk	N10A	Unk	201		8				Regular (5-year)	Yes
N10B_N10D	N10B	N10D	85		6				Regular (5-year)	No
N10C_N10B	N10C	N10B	327		6				Regular (5-year)	No
N10D_N10A	N10D	N10A	539		6				Regular (5-year)	Yes
N11_N10A	N11	N10A	157		8				Regular (5-year)	Yes
N12_N11	N12	N11	591		8				Regular (5-year)	Yes
N13_Unk	N13	Unk	145		6				Regular (5-year)	No
N13A_W57	N13A	W57	148		6				Regular (5-year)	No
N14_N13A	N14	N13A	291		6				Regular (5-year)	No
N14B_N14	N14B	N14	323		6				Regular (5-year)	No
N15_N6	N15	N6	202		6				Regular (5-year)	No
N17_Unk	N17	Unk	424		8				Regular (5-year)	No
N171_N17H	N171	N17H	104		6				Regular (5-year)	No
N17A_N17B	N17A	N17B	25		6				Regular (5-year)	No
N17A_W474	N17A	W474	285		8				Regular (5-year)	No
N17C_W483	N17C	W483	83		6				Regular (5-year)	No
N17D_N17C	N17D	N17C	335		6				Regular (5-year)	No
N17E_N17D	N17E	N17D	352		6				Regular (5-year)	No
N17F_Unk	N17F	Unk	322		6				Regular (5-year)	No
N17G_Unk	N17G	Unk	376		6				Regular (5-year)	No
N17H_N17G	N17H	N17G	380		6				Regular (5-year)	No
N18_N15	N18	N15	253		6				6-Month Frequency	No
N19_N18	N19	N18	291		6				6-Month Frequency	No
N1A_Unk	N1A	Unk	21		18				Regular (5-year)	No
N1B_N1A	N1B	N1A	15		24				Regular (5-year)	No
N1C_N1B	N1C	N1B	255		24				Regular (5-year)	No
N2_N1	N2	N1	250		10				Regular (5-year)	No
N20_Unk	N20	Unk	84		10				Regular (5-year)	No
N20A_N20B	N20A	N20B	82		10				Regular (5-year)	No
N20B_N20	N20B	N20	433		10				Regular (5-year)	No
N20C_W486	N20C	W486	632		6				Regular (5-year)	No
N20D_N20A	N20D	N20A	290		10				Regular (5-year)	No
N20E_CO-428	N20E	CO-428	309		6				Regular (5-year)	No
N20F_N20E	N20F	N20E	163		6				Regular (5-year)	No
N21_N20D	N21	N20D	235		10				Regular (5-year)	No
N21A_N21B	N21A	N21B	507		10				Regular (5-year)	Yes
N21B_N21	N21B	N21	25		10				Regular (5-year)	No
N21C_W516	N21C	W516	639		6				Regular (5-year)	Yes
N22_N21A	N22	N21A	500		10				Regular (5-year)	Yes
N22A_N22	N22A	N22	85		10				Regular (5-year)	Yes
N22C_W666	N22C	W666	244		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory										
Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
N22D_N22C	N22D	N22C	368		6				Regular (5-year)	No
N22E_N22J	N22E	N22J	278		6				Regular (5-year)	No
N22F_N22C	N22F	N22C	445		6				Regular (5-year)	No
N22G_W665	N22G	W665	250		10				Regular (5-year)	Yes
N22H_N22G	N22H	N22G	268		6				Regular (5-year)	Yes
N22I_N22H	N22I	N22H	301		6				Regular (5-year)	No
N22J_N22G	N22J	N22G	300		10				Regular (5-year)	Yes
N22L_N22E	N22L	N22E	254		6				Regular (5-year)	No
N22M_N22J	N22M	N22J	68		10				Regular (5-year)	Yes
N22N_N22M	N22N	N22M	105		10				Regular (5-year)	Yes
N22P_N22N	N22P	N22N	113		10				Regular (5-year)	Yes
N22Q_N22P	N22Q	N22P	245		10				Regular (5-year)	Yes
N22R_N22Q	N22R	N22Q	206		6				Regular (5-year)	Yes
N23_W667	N23	W667	553		10				Regular (5-year)	No
N230_N23P	N230	N23P	205		6				Regular (5-year)	No
N23A_N23	N23A	N23	335		10				Regular (5-year)	No
N23C_N23F	N23C	N23F	96		8				Regular (5-year)	No
N23D_N23A	N23D	N23A	264		10				Regular (5-year)	No
N23E_N23	N23E	N23	26		8				Regular (5-year)	No
N23F_N23E	N23F	N23E	269		8				Regular (5-year)	No
N23H_N23C	N23H	N23C	228		8				Regular (5-year)	No
N23I_N23H	N23I	N23H	112		8				Regular (5-year)	No
N23J_N23I	N23J	N23I	96		8				Regular (5-year)	No
N23K_N23J	N23K	N23J	205		8				Regular (5-year)	No
N23L_N23K	N23L	N23K	197		8				Regular (5-year)	No
N23M_N23L	N23M	N23L	344		8				Regular (5-year)	No
N23N_N23M	N23N	N23M	38		6				Regular (5-year)	No
N23N_N23P	N23N	N23P	349		6				Regular (5-year)	No
N23R_N230	N23R	N230	349		6				Regular (5-year)	No
N23S_N23K	N23S	N23K	338		6				Regular (5-year)	No
N23T_N23S	N23T	N23S	87		6				Regular (5-year)	No
N23U_N23T	N23U	N23T	183		6				Regular (5-year)	No
N23V_N23U	N23V	N23U	170		6				Regular (5-year)	No
N23W_N23T	N23W	N23T	94		6				Regular (5-year)	No
N23X_N23W	N23X	N23W	264		6				Regular (5-year)	No
N24_Unk	N24	Unk	123		10				Regular (5-year)	No
N24A_N24	N24A	N24	326		10				6-month	No
N24B_N24A	N24B	N24A	202		6				4-Month Frequency	No
N25_W669	N25	W669	202		10				6-month	No
N27_W24	N27	W24	83		6				6-month	No
N29_W16	N29	W16	466		6				6-month	No
N2A_N2	N2A	N2	308		10				Regular (5-year)	No
N2B_N2A	N2B	N2A	104		15				Regular (5-year)	No
N2C_N2B	N2C	N2B	411		6				Regular (5-year)	No
N2D_W377	N2D	W377	23		15				Regular (5-year)	No
N2E_N2D	N2E	N2D	330		6				Regular (5-year)	No
N2F_N2D	N2F	N2D	237		15				Regular (5-year)	No
N2G_N2F	N2G	N2F	213		6				Regular (5-year)	No
N2H_N2G	N2H	N2G	67		6				Regular (5-year)	No
N2I_N2H	N2I	N2H	363		6				Regular (5-year)	No
N3_N2F	N3	N2F	193		15				Regular (5-year)	No
N30_Unk	N30	Unk	167		6				6-month	No
N30_W739	N30	W739	37		12				Regular (5-year)	No
N300_W503	N300	W503	58		8				4-Month Frequency	No
N301_N300	N301	N300	73		8				4-Month Frequency	No
N302_N301	N302	N301	121		8				4-Month Frequency	No
N303_N302	N303	N302	170		8				4-Month Frequency	No
N305_N302	N305	N302	153		8				4-Month Frequency	No
N306_Unk	N306	Unk	70		8				6-month	No
N30A_N30	N30A	N30	363		6				Regular (5-year)	No
N30D_W749	N30D	W749	145		6				Regular (5-year)	No
N30E_N30D	N30E	N30D	59		6				Regular (5-year)	No
N31_N30	N31	N30	396		6				Regular (5-year)	No
N32_N32A	N32	N32A	57		10				Regular (5-year)	No
N32A_N25	N32A	N25	658		10				Regular (5-year)	No
N32B_N32	N32B	N32	474		10				Regular (5-year)	No
N32C_N32B	N32C	N32B	313		6				Regular (5-year)	No
N33_Unk	N33	Unk	197		10				Regular (5-year)	No
N33A_W2	N33A	W2	146		10				Regular (5-year)	No
N33B_N33A	N33B	N33A	339		10				Regular (5-year)	No
N33C_N33B	N33C	N33B	248		6				Regular (5-year)	No
N33D_N33C	N33D	N33C	262		6				Regular (5-year)	No
N34_N33B	N34	N33B	75		10				Regular (5-year)	No
N34A_N34	N34A	N34	496		6				Regular (5-year)	No
N35_N34	N35	N34	286		6				Regular (5-year)	No
N36_N34A	N36	N34A	94		6				Regular (5-year)	No
N37_N36	N37	N36	591		6				Regular (5-year)	No
N37C_W1	N37C	W1	424		6				Regular (5-year)	No
N37D_N37C	N37D	N37C	64		8				Regular (5-year)	No
N38_N3A	N38	N3A	309		6				Regular (5-year)	No
N39_Unk	N39	Unk	286		10				Regular (5-year)	No
N3A_N3	N3A	N3	77		15				Regular (5-year)	No
N3C_N38	N3C	N38	167		6				Regular (5-year)	No
N4_N3A	N4	N3A	513		15				Regular (5-year)	No
N40A_W929	N40A	W929	259		8				Regular (5-year)	Yes
N40B_N40A	N40B	N40A	300		8				Regular (5-year)	No
N40C_N40B	N40C	N40B	236		8				Regular (5-year)	No
N40D_N40C	N40D	N40C	180		8				Regular (5-year)	No
N40E_N40D	N40E	N40D	242		6				Regular (5-year)	No
N40F_N40E	N40F	N40E	320		6				Regular (5-year)	No
N40G_N40F	N40G	N40F	317		6				Regular (5-year)	No
N40H_N40G	N40H	N40G	124		6				Regular (5-year)	No
N40I_N40H	N40I	N40H	68		6				Regular (5-year)	No
N40J_N40D	N40J	N40D	298		8				Regular (5-year)	No
N40K_N40J	N40K	N40J	280		8				Regular (5-year)	No
N40L_N40K	N40L	N40K	122		8				Regular (5-year)	No
N40M_N40L	N40M	N40L	79		8				Regular (5-year)	No
N40N_N40M	N40N	N40M	167		8				Regular (5-year)	No
N40P_N40N	N40P	N40N	241		8				Regular (5-year)	No
N40Q_N40P	N40Q	N40P	250		6				Regular (5-year)	No
N40R_N40Q	N40R	N40Q	261		6				Regular (5-year)	No
N40S_N40R	N40S	N40R	249		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
N40T_N40S	N40T	N40S	346		6				Regular (5-year)	No
N40U_N40P	N40U	N40P	188		8				Regular (5-year)	No
N41_N41A	N41	N41A	82		6				Regular (5-year)	No
N41_W511	N41	W511	19		12				Regular (5-year)	No
N41A_Unk	N41A	Unk	361		6				Regular (5-year)	Yes
N41D_Unk	N41D	Unk	98		6				Regular (5-year)	No
N42_N41	N42	N41	360		6				Regular (5-year)	No
N43_N41	N43	N41	358		6				Regular (5-year)	Yes
N44_N43	N44	N43	370		8				Regular (5-year)	Yes
N45_Unk	N45	Unk	11		6				Regular (5-year)	Yes
N45B_N45	N45B	N45	87		6				6-month	Yes
N45C_Unk	N45C	Unk	16		8				Regular (5-year)	Yes
N45D_N45C	N45D	N45C	287		8				Regular (5-year)	Yes
N45E_N45D	N45E	N45D	368		8				Regular (5-year)	Yes
N45F_N45E	N45F	N45E	234		8				Regular (5-year)	No
N45G_N45F	N45G	N45F	267		8				Regular (5-year)	No
N45I_N45H	N45I	N45H	202		8				Regular (5-year)	No
N45J_N45F	N45J	N45F	142		8				Regular (5-year)	No
N45K_N45J	N45K	N45J	251		8				Regular (5-year)	No
N46_N45B	N46	N45B	222		6				6-month	Yes
N47_N46	N47	N46	315		6				6-month	No
N47A_W522	N47A	W522	86		6				Regular (5-year)	No
N47B_N47A	N47B	N47A	84		6				Regular (5-year)	No
N47C_Unk	N47C	Unk	152		6				Regular (5-year)	No
N47D_N47B	N47D	N47B	109		6				Regular (5-year)	No
N47E_N47D	N47E	N47D	265		6				Regular (5-year)	No
N47F_N47E	N47F	N47E	248		6				Regular (5-year)	No
N47G_N47D	N47G	N47D	184		6				Regular (5-year)	No
N47H_N47G	N47H	N47G	234		6				Regular (5-year)	No
N47I_N47H	N47I	N47H	276		6				Regular (5-year)	No
N47J_N47I	N47J	N47I	244		6				Regular (5-year)	No
N47K_N47H	N47K	N47H	58		6				Regular (5-year)	No
N47L_Unk	N47L	Unk	25		6				Regular (5-year)	No
N47M_N47L	N47M	N47L	53		6				Regular (5-year)	No
N48_N47	N48	N47	452		6				6-month	No
N49_N48	N49	N48	439		6				6-month	No
N49A_Unk	N49A	Unk	246		6				6-month	No
N49B_N49A	N49B	N49A	323		6				6-month	No
N49C_N49B	N49C	N49B	364		6				6-month	No
N49D_N49C	N49D	N49C	443		6				6-month	No
N49E_N49D	N49E	N49D	198		6				6-month	No
N4A_N4	N4A	N4	603		6				Regular (5-year)	No
N5_W485	N5	W485	46		15				Regular (5-year)	No
N50_N49A	N50	N49A	32		6				6-month	No
N50A_N50	N50A	N50	217		6				6-month	No
N50B_N50A	N50B	N50A	307		6				12-Month Frequency	No
N50C_N50B	N50C	N50B	253		6				12-Month Frequency	No
N50D_N50C	N50D	N50C	252		6				12-Month Frequency	No
N50E_N50D	N50E	N50D	88		6				12-Month Frequency	No
N50F_N50E	N50F	N50E	313		6				12-Month Frequency	No
N50G_N50F	N50G	N50F	78		6				12-Month Frequency	No
N50H_N50G	N50H	N50G	97		6				12-Month Frequency	No
N51_N51A	N51	N51A	243		6				12-Month Frequency	No
N51A_N24	N51A	N24	106		6				12-Month Frequency	No
N52_N51	N52	N51	418		6				12-Month Frequency	No
N53_N52	N53	N52	403		6				12-Month Frequency	No
N53A_N53	N53A	N53	326		6				12-Month Frequency	No
N53B_N53A	N53B	N53A	446		6				12-Month Frequency	No
N53C_N53B	N53C	N53B	337		6				12-Month Frequency	No
N54_Unk	N54	Unk	129		6				12-Month Frequency	No
N55_N54	N55	N54	307		6				12-Month Frequency	No
N56_N51	N56	N51	289		6				12-Month Frequency	No
N57_N56	N57	N56	328		6				12-Month Frequency	No
N58_N57	N58	N57	275		6				12-Month Frequency	No
N6_N5	N6	N5	37		10				Regular (5-year)	No
N7_Unk	N7	Unk	40		10				4-Month Frequency	No
N7A_Unk	N7A	Unk	59		6				Regular (5-year)	No
N7B_CO-414	N7B	CO-414	95		6				Regular (5-year)	No
N7B_Unk	N7B	Unk	201		8				Regular (5-year)	No
N7B_W503	N7B	W503	133		8				Regular (5-year)	No
N7C_W503	N7C	W503	271		8				4-Month Frequency	No
N7D_N7C	N7D	N7C	307		8				4-Month Frequency	No
N7E_N7D	N7E	N7D	300		8				4-Month Frequency	No
N8_N7C	N8	N7C	117		6				4-Month Frequency	No
N8A_N8	N8A	N8	119		8				4-Month Frequency	No
N8B_N8A	N8B	N8A	345		6				4-Month Frequency	No
N8C_N8B	N8C	N8B	347		6				4-Month Frequency	No
N9_Unk	N9	Unk	320		8				4-Month Frequency	No
N9A_N9	N9A	N9	159		8				Regular (5-year)	No
N9B_N9A	N9B	N9A	313		6				Regular (5-year)	No
N9C_N9A	N9C	N9A	444		8				Regular (5-year)	No
N9D_N9C	N9D	N9C	222		8				4-Month Frequency	No
N9E_N9D	N9E	N9D	107		6				4-Month Frequency	No
N9F_N9E	N9F	N9E	67		6				Regular (5-year)	Yes
N9G_N9F	N9G	N9F	107		6				Regular (5-year)	Yes
S1_S1A	S1	S1A	490		20				Regular (5-year)	Yes
S10_S9	S10	S9	194		12				Regular (5-year)	No
S100_S93	S100	S93	166		6				6-month	No
S101_Unk	S101	Unk	109		6				6-month	No
S102_S101	S102	S101	104		6				6-month	No
S103_S102	S103	S102	135		6				6-month	No
S104_S103	S104	S103	157		8				6-month	No
S104A_S104	S104A	S104	124		8				6-month	No
S104B_S104A	S104B	S104A	67		8				6-month	No
S105_S104B	S105	S104B	76		8				6-month	No
S105A_S105	S105A	S105	82		6				6-month	No
S106_S105	S106	S105	112		8				6-month	No
S106A_S106	S106A	S106	260		6				6-month	Yes
S106B_S106A	S106B	S106A	188		6				6-month	Yes
S106C_S106B	S106C	S106B	227		6				6-month	Yes
S107_S106	S107	S106	209		6				6-month	No
S108_Unk	S108	Unk	253		6				6-month	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S108A_S108	S108A	S108	159		6				6-month	No
S108B_S108A	S108B	S108A	88		6				6-month	No
S108C_S108B	S108C	S108B	42		6				6-month	No
S109_S108A	S109	S108A	114		6				6-month	No
S109A_S109	S109A	S109	101		6				6-month	No
S109B_S109A	S109B	S109A	40		6				6-month	No
S109C_S109A	S109C	S109A	63		6				6-month	No
S109D_S109	S109D	S109	289		6				6-month	No
S110_S109C	S110	S109C	348		6				6-month	No
S110A_S110	S110A	S110	137		6				6-month	No
S111_S110	S111	S110	268		6				6-month	No
S112_S111	S112	S111	104		6				6-month	No
S112A_S112	S112A	S112	155		6				12-Month Frequency	No
S112B_S112A	S112B	S112A	152		6				12-Month Frequency	No
S112C_S112B	S112C	S112B	148		6				12-Month Frequency	No
S112D_S112C	S112D	S112C	83		6				Regular (5-year)	No
S112E_S112D	S112E	S112D	43		6				Regular (5-year)	No
S112F_W561	S112F	W561	164		6				Regular (5-year)	No
S112G_W562	S112G	W562	221		6				Regular (5-year)	No
S112H_S112G	S112H	S112G	173		6				Regular (5-year)	No
S112J_S112T	S112J	S112T	383		6				Regular (5-year)	No
S112K_S112J	S112K	S112J	398		6				Regular (5-year)	No
S112L_S112H	S112L	S112H	422		6				Regular (5-year)	No
S112M_S112L	S112M	S112L	407		6				Regular (5-year)	No
S112N_S112M	S112N	S112M	391		6				Regular (5-year)	No
S112T_S112H	S112T	S112H	257		6				Regular (5-year)	No
S113_S112	S113	S112	140		6				6-month	No
S114_S113	S114	S113	235		6				6-month	No
S114A_S114	S114A	S114	309		6				6-month	No
S114B_S114A	S114B	S114A	152		6				6-month	No
S115_S116	S115	S116	198		6				6-month	Yes
S116_S117	S116	S117	160		6				6-month	Yes
S117_S118	S117	S118	186		6				6-month	No
S118_S119	S118	S119	314		6				6-month	Yes
S119_W604	S119	W604	342		6				6-month	Yes
S11A_S11	S11A	S11	94		8				Regular (5-year)	No
S11B_S11A	S11B	S11A	256		8				Regular (5-year)	No
S11C_S11B	S11C	S11B	121		6				Regular (5-year)	No
S11D_S11C	S11D	S11C	285		6				Regular (5-year)	No
S11E_S11D	S11E	S11D	258		6				Regular (5-year)	No
S12_S10	S12	S10	893		8				4-Month Frequency	No
S121_S121C	S121	S121C	162		6				6-month	No
S121A_S121	S121A	S121	54		6				6-month	No
S121B_S121A	S121B	S121A	62		6				6-month	No
S121C_S122	S121C	S122	68		6				6-month	No
S122_S106	S122	S106	199		6				6-month	No
S122A_S122	S122A	S122	49		6				6-month	No
S123_S53A	S123	S53A	246		12				Regular (5-year)	No
S123A_S123	S123A	S123	102		12				Regular (5-year)	No
S123B_S123A	S123B	S123A	120		6				Regular (5-year)	No
S123C_S123B	S123C	S123B	212		6				Regular (5-year)	No
S123D_S123C	S123D	S123C	348		6				Regular (5-year)	No
S123E_S123D	S123E	S123D	345		6				Regular (5-year)	No
S124_W201	S124	W201	553		12				Regular (5-year)	No
S125_Unk	S125	Unk	24		12				Regular (5-year)	No
S126_S125	S126	S125	323		6				Regular (5-year)	No
S127_Unk	S127	Unk	80		6				Regular (5-year)	No
S128_S125	S128	S125	242		12				Regular (5-year)	No
S129_S128	S129	S128	348		12				Regular (5-year)	No
S12B_W307	S12B	W307	198		6				4-Month Frequency	No
S13_S12	S13	S12	677		8				4-month	No
S130F_Unk	S130F	Unk	225		6				Regular (5-year)	No
S130J_Unk	S130J	Unk	191		6				Regular (5-year)	No
S130K_S130J	S130K	S130J	251		6				Regular (5-year)	No
S130L_S130J	S130L	S130J	211		6				Regular (5-year)	No
S130M_S130L	S130M	S130L	302		6				Regular (5-year)	No
S130N_S130M	S130N	S130M	228		6				Regular (5-year)	No
S130P_S130N	S130P	S130N	108		6				Regular (5-year)	No
S13A_S13	S13A	S13	221		6				Regular (5-year)	No
S13B_S13	S13B	S13	256		6				Regular (5-year)	No
S13C_S13B	S13C	S13B	166		6				Regular (5-year)	No
S13D_S13B	S13D	S13B	181		6				Regular (5-year)	No
S14_S13	S14	S13	472		8				Regular (5-year)	No
S143_S128	S143	S128	267		6				Regular (5-year)	No
S144_S143	S144	S143	143		6				Regular (5-year)	No
S145_S144	S145	S144	304		6				Regular (5-year)	No
S146_S145	S146	S145	213		6				Regular (5-year)	No
S147_S146	S147	S146	170		6				Regular (5-year)	No
S148_S147	S148	S147	218		6				Regular (5-year)	No
S149_S150	S149	S150	208		6				Regular (5-year)	No
S15_S14	S15	S14	657		8				Regular (5-year)	No
S150_W193	S150	W193	322		6				Regular (5-year)	No
S153_W192	S153	W192	310		6				Regular (5-year)	No
S154_S153	S154	S153	236		6				Regular (5-year)	No
S155_S154	S155	S154	253		6				Regular (5-year)	No
S156_Unk	S156	Unk	292		6				Regular (5-year)	No
S157_S154	S157	S154	295		6				Regular (5-year)	No
S158_S157	S158	S157	286		6				Regular (5-year)	No
S16_S382	S16	S382	304		8				Regular (5-year)	No
S160_S158	S160	S158	260		6				Regular (5-year)	No
S161_S160	S161	S160	172		6				Regular (5-year)	No
S162_S161	S162	S161	193		6				Regular (5-year)	No
S163_S162	S163	S162	101		6				Regular (5-year)	No
S164_S165	S164	S165	93		6				Regular (5-year)	No
S165_S166	S165	S166	210		6				Regular (5-year)	No
S166_S167	S166	S167	338		6				Regular (5-year)	No
S167_S168	S167	S168	221		6				Regular (5-year)	No
S168_S169	S168	S169	270		6				Regular (5-year)	No
S169_S170	S169	S170	296		6				Regular (5-year)	No
S17_S16	S17	S16	30		8				Regular (5-year)	No
S17_S381	S17	S381	303		18				Regular (5-year)	No
S170_S171	S170	S171	193		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S171_Unk	S171	Unk	76		6				Regular (5-year)	No
S172_S123E	S172	S123E	345		6				Regular (5-year)	No
S173_S174	S173	S174	205		6				Regular (5-year)	No
S173A_S173	S173A	S173	130		6				Regular (5-year)	No
S173B_S173A	S173B	S173A	109		6				Regular (5-year)	No
S174_S175	S174	S175	265		6				Regular (5-year)	No
S175_S176	S175	S176	257		6				Regular (5-year)	No
S176_S144	S176	S144	234		6				Regular (5-year)	No
S178_S177	S178	S177	58		21				Regular (5-year)	No
S179_S178	S179	S178	128		21				Regular (5-year)	No
S18_Unk	S18	Unk	484		6				Regular (5-year)	No
S180_S179	S180	S179	65		30				Regular (5-year)	No
S181_S180	S181	S180	459		42				Regular (5-year)	Yes
S182_S181	S182	S181	495		42				Regular (5-year)	Yes
S183_S182	S183	S182	160		42				Regular (5-year)	Yes
S184_S183	S184	S183	122		24				Regular (5-year)	Yes
S185_S184	S185	S184	145		24				Regular (5-year)	Yes
S189_W353	S189	W353	250		24				Regular (5-year)	Yes
S190_W351	S190	W351	209		24				Regular (5-year)	Yes
S191_S190	S191	S190	91		24				Regular (5-year)	Yes
S192_S191	S192	S191	229		24				Regular (5-year)	Yes
S193_S192	S193	S192	391		24				Regular (5-year)	Yes
S194_S193	S194	S193	287		24				Regular (5-year)	Yes
S195_S194	S195	S194	114		24				Regular (5-year)	Yes
S196_S195	S196	S195	133		24				6-month	Yes
S197_S196	S197	S196	248		24				6-month	Yes
S198_S197	S198	S197	18		6				Regular (5-year)	Yes
S199_S198	S199	S198	249		24				Regular (5-year)	Yes
S19A_S11	S19A	S11	203		12				4-Month Frequency	No
S19B_S19E	S19B	S19E	60		12				4-Month Frequency	No
S19C_W337	S19C	W337	54		6				4-month	No
S19D_W337	S19D	W337	219		12				4-Month Frequency	No
S19E_S19D	S19E	S19D	79		12				4-Month Frequency	No
S19F_W337	S19F	W337	44		6				4-month	No
S1A_Unk	S1A	Unk	185		20				Regular (5-year)	No
S2_S1	S2	S1	493		20				Regular (5-year)	Yes
S20_S19B	S20	S19B	56		12				4-Month Frequency	No
S200_S199	S200	S199	92		24				Regular (5-year)	Yes
S201_S200	S201	S200	111		24				Regular (5-year)	Yes
S202_S201	S202	S201	24		6				Regular (5-year)	Yes
S202A_S202	S202A	S202	203		6				Regular (5-year)	Yes
S202B_S202A	S202B	S202A	71		6				Regular (5-year)	No
S203_Unk	S203	Unk	87		6				4-Month Frequency	No
S203A_Unk	S203A	Unk	119		6				4-Month Frequency	No
S203B_S203A	S203B	S203A	309		6				4-Month Frequency	No
S203C_S203B	S203C	S203B	165		6				4-Month Frequency	No
S203D_S203C	S203D	S203C	197		6				4-Month Frequency	No
S203E_Unk	S203E	Unk	62		6				4-Month Frequency	Yes
S203F_S203E	S203F	S203E	96		6				4-Month Frequency	Yes
S203G_Unk	S203G	Unk	107		6				4-Month Frequency	Yes
S203H_S203G	S203H	S203G	158		6				4-Month Frequency	Yes
S204_S201	S204	S201	40		24				Regular (5-year)	Yes
S205_S204	S205	S204	103		24				Regular (5-year)	No
S206_S205	S206	S205	204		24				Regular (5-year)	No
S207_S206	S207	S206	222		24				Regular (5-year)	No
S208_W447	S208	W447	123		24				Regular (5-year)	No
S209_W449	S209	W449	360		18				Regular (5-year)	No
S20A_S20B	S20A	S20B	185		12				4-Month Frequency	No
S20B_S20	S20B	S20	35		12				4-month	No
S21_S20A	S21	S20A	280		12				4-Month Frequency	No
S211_W610	S211	W610	125		18				Regular (5-year)	No
S211B_S211	S211B	S211	494		8				Regular (5-year)	No
S211C_S211B	S211C	S211B	240		6				Regular (5-year)	No
S211D_S211B	S211D	S211B	262		6				Regular (5-year)	No
S212_S211	S212	S211	466		18				Regular (5-year)	No
S212A_S212	S212A	S212	487		8				Regular (5-year)	No
S213_S212	S213	S212	228		18				Regular (5-year)	No
S214_S213	S214	S213	323		12				Regular (5-year)	No
S215_S214	S215	S214	345		12				Regular (5-year)	Yes
S216_S215	S216	S215	77		12				Regular (5-year)	Yes
S217_S216	S217	S216	261		6				Regular (5-year)	Yes
S218_S217	S218	S217	301		6				Regular (5-year)	Yes
S219_S218	S219	S218	280		6				Regular (5-year)	No
S22_S21	S22	S21	336		12				Regular (5-year)	No
S220_S216	S220	S216	121		12				Regular (5-year)	Yes
S221_S220	S221	S220	72		12				Regular (5-year)	Yes
S222_S221	S222	S221	129		12				Regular (5-year)	Yes
S223_S222	S223	S222	158		6				Regular (5-year)	Yes
S224_S223	S224	S223	117		6				Regular (5-year)	Yes
S225_S224	S225	S224	254		6				Regular (5-year)	Yes
S227_S226	S227	S226	344		6				Regular (5-year)	No
S228_S222	S228	S222	260		6				Regular (5-year)	Yes
S229_S228	S229	S228	166		6				Regular (5-year)	Yes
S22A_S22	S22A	S22	262		6				Regular (5-year)	No
S22D_W342	S22D	W342	47		6				Regular (5-year)	No
S22E_Unk	S22E	Unk	122		6				Regular (5-year)	No
S22G_S22E	S22G	S22E	136		6				Regular (5-year)	No
S22H_S22G	S22H	S22G	125		6				Regular (5-year)	No
S23_Unk	S23	Unk	151		12				Regular (5-year)	No
S230_S228	S230	S228	261		6				Regular (5-year)	Yes
S231_S230	S231	S230	265		6				Regular (5-year)	Yes
S232_S231	S232	S231	124		6				Regular (5-year)	Yes
S233_S232	S233	S232	172		6				Regular (5-year)	Yes
S234_S232	S234	S232	144		6				Regular (5-year)	Yes
S235_S234	S235	S234	111		6				Regular (5-year)	Yes
S236_S235	S236	S235	345		6				Regular (5-year)	No
S237_S236	S237	S236	176		6				Regular (5-year)	No
S238_S237	S238	S237	151		6				Regular (5-year)	No
S239_S222	S239	S222	182		12				Regular (5-year)	Yes
S239A_S239	S239A	S239	87		12				Regular (5-year)	No
S239B_S239A	S239B	S239A	334		12				Regular (5-year)	No
S23A_S23	S23A	S23	368		8				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S23B_S23A	S23B	S23A	123		6				Regular (5-year)	No
S23C_S23B	S23C	S23B	36		6				Regular (5-year)	No
S23D_S23A	S23D	S23A	155		6				Regular (5-year)	No
S23E_S23D	S23E	S23D	112		6				Regular (5-year)	No
S23F_S23D	S23F	S23D	210		6				Regular (5-year)	No
S23G_S23F	S23G	S23F	138		6				Regular (5-year)	No
S23H_S23G	S23H	S23G	58		6				Regular (5-year)	No
S23I_S23B	S23I	S23B	27		6				Regular (5-year)	No
S240_S239	S240	S239	136		8				Regular (5-year)	No
S240A_S240	S240A	S240	145		6				Regular (5-year)	No
S240B_S240A	S240B	S240A	152		6				Regular (5-year)	No
S241_S240	S241	S240	383		8				Regular (5-year)	No
S242_S241	S242	S241	189		8				Regular (5-year)	No
S243_S242	S243	S242	255		6				Regular (5-year)	No
S244_S243	S244	S243	328		6				Regular (5-year)	No
S245_S243	S245	S243	257		6				Regular (5-year)	No
S246_S245	S246	S245	273		6				Regular (5-year)	No
S247_S246	S247	S246	262		6				Regular (5-year)	No
S249_Unk	S249	Unk	282		6				Regular (5-year)	No
S24A_W347	S24A	W347	285		6				Regular (5-year)	Yes
S24B_S24A	S24B	S24A	42		6				Regular (5-year)	Yes
S25_S25A	S25	S25A	16		10				6-month	No
S250_S247	S250	S247	201		6				Regular (5-year)	No
S251_S250	S251	S250	202		6				Regular (5-year)	No
S252_S251	S252	S251	103		6				Regular (5-year)	No
S253_S252	S253	S252	148		6				Regular (5-year)	No
S255_S213	S255	S213	221		12				Regular (5-year)	No
S256_W609	S256	W609	348		10				Regular (5-year)	No
S257_W607	S257	W607	257		10				Regular (5-year)	No
S258_S257	S258	S257	171		10				Regular (5-year)	Yes
S259_W689	S259	W689	272		10				Regular (5-year)	No
S25A_Unk	S25A	Unk	299		10				6-month	Yes
S25B_S25A	S25B	S25A	17		10				Regular (5-year)	No
S25C_S25B	S25C	S25B	303		6				4-Month Frequency	No
S26_W435	S26	W435	206		10				Regular (5-year)	No
S260_S259	S260	S259	316		10				Regular (5-year)	No
S261_S260	S261	S260	302		10				Regular (5-year)	No
S262_W687	S262	W687	247		10				Regular (5-year)	No
S263_S262	S263	S262	209		10				Regular (5-year)	No
S264_W590	S264	W590	203		6				Regular (5-year)	No
S265_S264	S265	S264	95		6				Regular (5-year)	No
S266_S265	S266	S265	268		6				Regular (5-year)	No
S267_S266	S267	S266	263		6				Regular (5-year)	Yes
S268_S264	S268	S264	366		10				Regular (5-year)	Yes
S269_S268	S269	S268	163		8				Regular (5-year)	Yes
S27_S26	S27	S26	423		6				Regular (5-year)	No
S270_S269	S270	S269	153		8				Regular (5-year)	Yes
S271_S270	S271	S270	299		8				Regular (5-year)	No
S273_S272	S273	S272	291		8				Regular (5-year)	No
S274_S273	S274	S273	317		8				Regular (5-year)	No
S275_S274	S275	S274	215		6				Regular (5-year)	No
S276_S275	S276	S275	338		6				Regular (5-year)	No
S277_S276	S277	S276	222		6				Regular (5-year)	No
S278_S274	S278	S274	313		6				Regular (5-year)	No
S279_S278	S279	S278	395		6				Regular (5-year)	No
S28_S27	S28	S27	68		6				Regular (5-year)	No
S29_S28	S29	S28	455		6				Regular (5-year)	No
S3_54	S3	54	106		20				Regular (5-year)	Yes
S3_S2	S3	S2	191		20				Regular (5-year)	Yes
S30_S29	S30	S29	467		6				Regular (5-year)	No
S300_S255	S300	S255	262		12				Regular (5-year)	No
S301_S300	S301	S300	463		12				Regular (5-year)	Yes
S302_S301	S302	S301	465		12				Regular (5-year)	Yes
S303_S302	S303	S302	28		12				Regular (5-year)	Yes
S304_S303	S304	S303	123		12				Regular (5-year)	Yes
S305_S304	S305	S304	377		12				Regular (5-year)	Yes
S306_S305	S306	S305	386		12				Regular (5-year)	No
S308_W826	S308	W826	403		33				Regular (5-year)	No
S309_S308	S309	S308	459		33				Regular (5-year)	No
S30A_S30	S30A	S30	155		6				Regular (5-year)	No
S31_S21	S31	S21	22		8				4-month	No
S310_S309	S310	S309	246		27				Regular (5-year)	No
S311_S310	S311	S310	76		27				Regular (5-year)	No
S312_S311	S312	S311	336		8				Regular (5-year)	No
S312A_Unk	S312A	Unk	163		8				Regular (5-year)	No
S313_S312	S313	S312	324		8				Regular (5-year)	No
S314_Unk	S314	Unk	204		8				Regular (5-year)	No
S315_S314	S315	S314	364		8				Regular (5-year)	No
S316_S311	S316	S311	168		27				Regular (5-year)	No
S318_W121	S318	W121	318		27				Regular (5-year)	No
S319_S318	S319	S318	329		27				Regular (5-year)	No
S32_S31	S32	S31	538		8				4-Month Frequency	No
S320_S319	S320	S319	352		27				Regular (5-year)	No
S322_W110	S322	W110	435		27				Regular (5-year)	No
S323_S322	S323	S322	304		27				Regular (5-year)	No
S324_S323	S324	S323	283		27				Regular (5-year)	No
S325_S324	S325	S324	214		27				Regular (5-year)	No
S326_S325	S326	S325	404		24				Regular (5-year)	Yes
S327_S326	S327	S326	434		24				Regular (5-year)	Yes
S327_Unk	S327	Unk	74		8				Regular (5-year)	No
S328_Unk	S328	Unk	168		8				Regular (5-year)	No
S329_W76	S329	W76	276		8				Regular (5-year)	No
S33_S32	S33	S32	307		6				4-Month Frequency	No
S330_W77	S330	W77	413		8				Regular (5-year)	No
S331_Unk	S331	Unk	20		8				Regular (5-year)	No
S332_S327	S332	S327	172		24				Regular (5-year)	No
S333_W74	S333	W74	149		21				Regular (5-year)	Yes
S334_W178	S334	W178	55		21				Regular (5-year)	Yes
S335_S334	S335	S334	425		21				Regular (5-year)	Yes
S336_S335	S336	S335	344		21				Regular (5-year)	Yes
S337_S336	S337	S336	319		21				Regular (5-year)	Yes
S338_S337	S338	S337	322		21				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S339_S338	S339	S338	49		10				Regular (5-year)	Yes
S339A_S339	S339A	S339	291		10				Regular (5-year)	Yes
S339B_S339A	S339B	S339A	202		10				Regular (5-year)	Yes
S339C_S339B	S339C	S339B	153		10				Regular (5-year)	No
S339D_W159	S339D	W159	113		8				Regular (5-year)	No
S339E_Unk	S339E	Unk	63		4				Regular (5-year)	No
S339F_Unk	S339F	Unk	120		10				Regular (5-year)	No
S339H_Unk	S339H	Unk	248		10				Regular (5-year)	No
S34_S33	S34	S33	362		6				Regular (5-year)	No
S340_S338	S340	S338	175		21				Regular (5-year)	No
S341_S340	S341	S340	441		21				Regular (5-year)	No
S342_S341	S342	S341	260		24				Regular (5-year)	No
S343_S342	S343	S342	279		24				Regular (5-year)	No
S344_S343	S344	S343	319		10				Regular (5-year)	No
S345_S344	S345	S344	323		10				Regular (5-year)	No
S346_S345	S346	S345	35		10				Regular (5-year)	No
S347_S346	S347	S346	507		10				Regular (5-year)	No
S348_S347	S348	S347	508		10				Regular (5-year)	No
S349_S348	S349	S348	363		10				Regular (5-year)	No
S35_S34	S35	S34	96		6				Regular (5-year)	No
S350_S349	S350	S349	162		8				Regular (5-year)	No
S351_S350	S351	S350	256		8				Regular (5-year)	No
S352_S351	S352	S351	253		8				Regular (5-year)	No
S353_S352	S353	S352	311		8				Regular (5-year)	No
S354_S353	S354	S353	449		8				Regular (5-year)	No
S355_S354	S355	S354	168		8				Regular (5-year)	No
S356_S355	S356	S355	290		8				Regular (5-year)	No
S357_S345	S357	S345	292		10				Regular (5-year)	No
S358_S357	S358	S357	43		10				Regular (5-year)	No
S359_S358	S359	S358	148		10				Regular (5-year)	No
S35A_S35	S35A	S35	118		6				Regular (5-year)	No
S35B_S35A	S35B	S35A	277		6				Regular (5-year)	No
S36_W335	S36	W335	101		6				Regular (5-year)	No
S360_S359	S360	S359	42		8				Regular (5-year)	No
S361_S360	S361	S360	524		8				Regular (5-year)	No
S362_S361	S362	S361	401		8				Regular (5-year)	No
S362_Unk	S362	Unk	17		8				Regular (5-year)	No
S363_S343	S363	S343	380		15				Regular (5-year)	No
S365_Unk	S365	Unk	183		15				Regular (5-year)	No
S366_S365	S366	S365	218		15				Regular (5-year)	No
S367_S366	S367	S366	198		15				Regular (5-year)	No
S368_S367	S368	S367	226		8				Regular (5-year)	No
S368A_S368	S368A	S368	32		6				Regular (5-year)	No
S369_S368	S369	S368	215		8				Regular (5-year)	No
S37_Unk	S37	Unk	93		6				Regular (5-year)	No
S370_S369	S370	S369	168		8				Regular (5-year)	No
S378_Unk	S378	Unk	233		18				Regular (5-year)	No
S379_S378	S379	S378	378		18				Regular (5-year)	No
S379A_S379	S379A	S379	93		18				Regular (5-year)	No
S38_S37	S38	S37	89		6				Regular (5-year)	No
S381_W285	S381	W285	159		18				Regular (5-year)	No
S382_S381	S382	S381	26		8				Regular (5-year)	No
S383_W285	S383	W285	178		10				Regular (5-year)	No
S384_S383	S384	S383	222		10				Regular (5-year)	No
S385_S384	S385	S384	153		10				Regular (5-year)	No
S386_S385	S386	S385	224		6				Regular (5-year)	No
S387_S385	S387	S385	174		10				Regular (5-year)	No
S388_S387	S388	S387	171		10				Regular (5-year)	No
S389_S388	S389	S388	159		10				Regular (5-year)	No
S39_W288	S39	W288	988		14				Regular (5-year)	No
S390_S384	S390	S384	207		8				Regular (5-year)	No
S391_Unk	S391	Unk	196		18				Regular (5-year)	No
S392_S391	S392	S391	337		18				Regular (5-year)	No
S393_S392	S393	S392	139		10				Regular (5-year)	No
S394_S393	S394	S393	239		8				Regular (5-year)	No
S395_S394	S395	S394	226		8				Regular (5-year)	No
S396_S395	S396	S395	155		8				Regular (5-year)	No
S397_S396	S397	S396	138		8				Regular (5-year)	No
S398_S393	S398	S393	315		10				Regular (5-year)	No
S399_S398	S399	S398	176		10				Regular (5-year)	No
S39A_S39	S39A	S39	448		14				Regular (5-year)	No
S40_W142	S40	W142	53		14				Regular (5-year)	No
S400_S399	S400	S399	102		10				Regular (5-year)	No
S401_S400	S401	S400	328		8				Regular (5-year)	No
S402_S400	S402	S400	170		8				Regular (5-year)	No
S403_S402	S403	S402	251		8				Regular (5-year)	No
S404_S393	S404	S393	230		8				Regular (5-year)	No
S405_S404	S405	S404	257		8				Regular (5-year)	No
S406_S405	S406	S405	358		6				Regular (5-year)	No
S407_S392	S407	S392	353		18				Regular (5-year)	No
S408_S407	S408	S407	383		18				Regular (5-year)	No
S409_S408	S409	S408	141		10				Regular (5-year)	No
S41_Unk	S41	Unk	219		14				Regular (5-year)	No
S410_S409	S410	S409	354		10				Regular (5-year)	No
S411_S410	S411	S410	98		10				Regular (5-year)	No
S412_S411	S412	S411	191		10				Regular (5-year)	No
S413_S411	S413	S411	211		6				Regular (5-year)	No
S414_S409	S414	S409	220		8				Regular (5-year)	No
S415_S414	S415	S414	243		8				Regular (5-year)	No
S416_S415	S416	S415	252		8				Regular (5-year)	No
S417_S416	S417	S416	302		8				Regular (5-year)	No
S418_S417	S418	S417	162		8				Regular (5-year)	No
S419_S418	S419	S418	212		6				Regular (5-year)	No
S42_S41	S42	S41	253		14				Regular (5-year)	No
S420_S408	S420	S408	293		18				Regular (5-year)	No
S421_S420	S421	S420	307		10				Regular (5-year)	No
S42A_Unk	S42A	Unk	162		6				Regular (5-year)	No
S42B_W136	S42B	W136	164		6				Regular (5-year)	No
S42C_Unk	S42C	Unk	276		6				Regular (5-year)	No
S43_S42	S43	S42	247		12				Regular (5-year)	No
S43A_S43	S43A	S43	211		12				4-Month Frequency	No
S43B_S43A	S43B	S43A	176		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S43C_S43A	S43C	S43A	260		12				Regular (5-year)	No
S44_S43C	S44	S43C	197		12				Regular (5-year)	No
S44A_S44	S44A	S44	42		12				Regular (5-year)	No
S44B_S44A	S44B	S44A	244		12				Regular (5-year)	No
S44C_S44B	S44C	S44B	260		12				Regular (5-year)	No
S45_S44C	S45	S44C	160		12				Regular (5-year)	No
S45A_S45	S45A	S45	104		6				6-Month Frequency	No
S45C_S45A	S45C	S45A	144		6				Regular (5-year)	No
S45D_S45C	S45D	S45C	310		6				Regular (5-year)	No
S46_S45	S46	S45	238		12				Regular (5-year)	No
S46A_S46	S46A	S46	447		12				Regular (5-year)	No
S46B_S46A	S46B	S46A	213		6				Regular (5-year)	No
S46C_S46B	S46C	S46B	207		6				Regular (5-year)	No
S47_S46A	S47	S46A	189		12				Regular (5-year)	No
S47A_S47	S47A	S47	214		12				Regular (5-year)	No
S47B_S47A	S47B	S47A	280		12				Regular (5-year)	No
S47C_S47A	S47C	S47A	122		6				Regular (5-year)	No
S47D_S47C	S47D	S47C	243		6				Regular (5-year)	No
S47E_S47D	S47E	S47D	157		6				Regular (5-year)	No
S47G_S47D	S47G	S47D	157		6				Regular (5-year)	No
S47H_S47G	S47H	S47G	116		6				Regular (5-year)	No
S48_S47B	S48	S47B	145		12				Regular (5-year)	No
S49_Unk	S49	Unk	304		12				Regular (5-year)	No
S49A_S49	S49A	S49	105		12				Regular (5-year)	No
S5_54	S5	54	1034		14				Regular (5-year)	Yes
S50_S49A	S50	S49A	83		12				Regular (5-year)	No
S51_S50	S51	S50	92		12				Regular (5-year)	No
S52_S51	S52	S51	97		12				Regular (5-year)	No
S53_S52	S53	S52	422		12				Regular (5-year)	No
S53A_S53	S53A	S53	115		12				Regular (5-year)	No
S53A_S53B	S53A	S53B	164		10				Regular (5-year)	No
S53B_S53C	S53B	S53C	340		10				Regular (5-year)	No
S53C_W99	S53C	W99	310		10				Regular (5-year)	No
S53E_S53F	S53E	S53F	204		10				Regular (5-year)	No
S53F_S53G	S53F	S53G	186		10				Regular (5-year)	No
S53G_S53H	S53G	S53H	292		10				Regular (5-year)	No
S53H_S349	S53H	S349	175		10				Regular (5-year)	No
S54_S49	S54	S49	57		6				Regular (5-year)	No
S54B_S54	S54B	S54	307		6				Regular (5-year)	No
S55_S54B	S55	S54B	201		6				Regular (5-year)	No
S56_S56A	S56	S56A	112		6				Regular (5-year)	No
S56A_S45	S56A	S45	588		6				6-Month Frequency	No
S56B_S56A	S56B	S56A	295		6				6-Month Frequency	No
S57_S56	S57	S56	448		6				Regular (5-year)	No
S58_S57	S58	S57	448		6				Regular (5-year)	No
S59_S58	S59	S58	58		6				Regular (5-year)	No
S60_S59	S60	S59	515		6				Regular (5-year)	No
S60A_S60	S60A	S60	174		6				Regular (5-year)	No
S60B_S60A	S60B	S60A	130		6				Regular (5-year)	No
S60C_S60B	S60C	S60B	160		6				Regular (5-year)	No
S60D_S60C	S60D	S60C	156		6				Regular (5-year)	No
S60E_S60D	S60E	S60D	90		6				Regular (5-year)	No
S60F_S60E	S60F	S60E	89		6				Regular (5-year)	No
S60G_S60F	S60G	S60F	137		6				Regular (5-year)	No
S60H_S60E	S60H	S60E	130		6				Regular (5-year)	No
S60I_S60H	S60I	S60H	100		6				Regular (5-year)	No
S60J_S60I	S60J	S60I	301		6				Regular (5-year)	No
S60K_S60J	S60K	S60J	167		6				Regular (5-year)	No
S61_S60A	S61	S60A	213		6				Regular (5-year)	No
S62_S43	S62	S43	255		6				4-Month Frequency	No
S62A_W137	S62A	W137	162		6				4-Month Frequency	No
S62C_Unk	S62C	Unk	343		6				Regular (5-year)	No
S63_W292	S63	W292	160		6				Regular (5-year)	No
S63A_S63	S63A	S63	250		6				Regular (5-year)	No
S63B_S63A	S63B	S63A	159		6				Regular (5-year)	No
S63C_S63B	S63C	S63B	200		6				Regular (5-year)	No
S63D_S63C	S63D	S63C	291		6				Regular (5-year)	No
S63F_S63C	S63F	S63C	563		6				Regular (5-year)	No
S63G_S63F	S63G	S63F	312		6				Regular (5-year)	No
S64_S63	S64	S63	202		6				Regular (5-year)	No
S64A_S64	S64A	S64	166		8				Regular (5-year)	No
S64B_S64A	S64B	S64A	109		8				Regular (5-year)	No
S64C_S64B	S64C	S64B	193		8				Regular (5-year)	No
S64D_S64C	S64D	S64C	154		8				Regular (5-year)	No
S64E_S64D	S64E	S64D	69		8				Regular (5-year)	No
S64F_S64E	S64F	S64E	27		8				Regular (5-year)	No
S64G_S64F	S64G	S64F	93		6				Regular (5-year)	No
S64H_Unk	S64H	Unk	15		6				Regular (5-year)	No
S64J_S64T	S64J	S64T	189		6				Regular (5-year)	No
S64K_S64H	S64K	S64H	79		6				Regular (5-year)	No
S64L_S64K	S64L	S64K	188		6				Regular (5-year)	No
S64M_S64L	S64M	S64L	57		6				Regular (5-year)	No
S64N_S64M	S64N	S64M	172		6				Regular (5-year)	No
S64P_S64N	S64P	S64N	61		6				Regular (5-year)	No
S64Q_S64P	S64Q	S64P	193		6				Regular (5-year)	No
S64R_S64Q	S64R	S64Q	62		6				Regular (5-year)	No
S64T_S64H	S64T	S64H	179		6				Regular (5-year)	No
S65_W299	S65	W299	356		6				Regular (5-year)	No
S65A_S65	S65A	S65	213		6				Regular (5-year)	No
S65B_S65A	S65B	S65A	194		6				Regular (5-year)	No
S65C_S65B	S65C	S65B	246		6				Regular (5-year)	No
S66_S65	S66	S65	69		6				Regular (5-year)	No
S67_S3	S67	S3	398		8				Regular (5-year)	Yes
S68_S67	S68	S67	331		8				Regular (5-year)	Yes
S69_S68	S69	S68	219		8				Regular (5-year)	Yes
S7_W289	S7	W289	348		14				Regular (5-year)	No
S70_S69	S70	S69	158		6				Regular (5-year)	Yes
S71_S70	S71	S70	415		6				Regular (5-year)	Yes
S72_S71	S72	S71	162		6				Regular (5-year)	Yes
S73_S72	S73	S72	160		6				Regular (5-year)	No
S74_W364	S74	W364	176		6				Regular (5-year)	No
S75_W352	S75	W352	238		8				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
S76_S75	S76	S75	411		8				Regular (5-year)	Yes
S77_S76	S77	S76	413		6				Regular (5-year)	No
S78_S69	S78	S69	159		6				Regular (5-year)	Yes
S79_S78	S79	S78	406		6				Regular (5-year)	Yes
S8_S7	S8	S7	376		14				Regular (5-year)	No
S80_S79	S80	S79	423		6				Regular (5-year)	No
S82_S80	S82	S80	119		6				Regular (5-year)	No
S83_S82	S83	S82	375		6				Regular (5-year)	No
S85_Unk	S85	Unk	165		6				Regular (5-year)	No
S86_Unk	S86	Unk	232		6				Regular (5-year)	Yes
S88_W468	S88	W468	188		6				Regular (5-year)	No
S89_S26	S89	S26	128		8				Regular (5-year)	Yes
S9_S8	S9	S8	40		14				Regular (5-year)	No
S90_S89	S90	S89	174		8				Regular (5-year)	Yes
S91_S90	S91	S90	99		8				Regular (5-year)	No
S93_W436	S93	W436	110		8				Regular (5-year)	No
S94_S93	S94	S93	211		6				6-month	No
S95_S94	S95	S94	226		6				6-month	No
S96_S95	S96	S95	184		6				6-month	No
S96A_S96	S96A	S96	47		6				6-month	No
S96B_S96A	S96B	S96A	179		6				12-Month Frequency	No
S97_S96A	S97	S96A	165		6				6-month	No
S97A_S97	S97A	S97	200		6				6-month	No
S98_S97A	S98	S97A	226		6				6-month	No
S98B_Unk	S98B	Unk	105		6				12-Month Frequency	No
S99_S98	S99	S98	103		6				6-month	No
S99A_S99	S99A	S99	73		6				6-month	No
S99B_S99	S99B	S99	130		6				6-month	No
S99C_S99B	S99C	S99B	57		6				6-month	No
SC-1036_S344	SC-1036	S344	45		6				Regular (5-year)	No
SC-1037_S366	SC-1037	S366	67		8				Regular (5-year)	No
SC-1038_S365	SC-1038	S365	57		6				Regular (5-year)	No
SC-1040_S363	SC-1040	S363	30		8				Regular (5-year)	No
SC-1041_S370	SC-1041	S370	55		6				Regular (5-year)	No
SC-1042_S370	SC-1042	S370	31		6				Regular (5-year)	No
SC-1043_S369	SC-1043	S369	35		6				Regular (5-year)	No
SC-1045_Unk	SC-1045	Unk	20		6				Regular (5-year)	No
SC-1046_Unk	SC-1046	Unk	53		6				Regular (5-year)	No
SC-1083_Unk	SC-1083	Unk	29		4				Regular (5-year)	No
SC-2085_Unk	SC-2085	Unk	50		6				Regular (5-year)	No
SC-2093_S313	SC-2093	S313	42		4				Regular (5-year)	No
SC-2096_Unk	SC-2096	Unk	44		4				Regular (5-year)	No
SC-2841_Unk	SC-2841	Unk	35		4				Regular (5-year)	No
SC-4597_W578	SC-4597	W578	29		4				Regular (5-year)	No
SC-4598_W583	SC-4598	W583	45		4				Regular (5-year)	No
Unk_4A	Unk	4A	42		6				Regular (5-year)	No
Unk_CO-108	Unk	CO-108	14		6				Regular (5-year)	No
Unk_CO-110	Unk	CO-110	28		14				Regular (5-year)	No
Unk_CO-139	Unk	CO-139	28		6				Regular (5-year)	No
Unk_CO-162	Unk	CO-162	96		4				Regular (5-year)	No
Unk_CO-217	Unk	CO-217	90		4				Regular (5-year)	No
Unk_CO-293	Unk	CO-293	88		6				Regular (5-year)	No
Unk_CO-303	Unk	CO-303	21		6				Regular (5-year)	No
Unk_CO-304	Unk	CO-304	37		6				Regular (5-year)	No
Unk_CO-34	Unk	CO-34	97		6				Regular (5-year)	No
Unk_CO-35	Unk	CO-35	16		6				Regular (5-year)	No
Unk_CO-378	Unk	CO-378	17		4				Regular (5-year)	No
Unk_CO-382	Unk	CO-382	73		6				6-month	No
Unk_CO-393	Unk	CO-393	77		4				Regular (5-year)	No
Unk_CO-396	Unk	CO-396	78		4				Regular (5-year)	No
Unk_CO-411	Unk	CO-411	24		8				Regular (5-year)	No
Unk_CO-412	Unk	CO-412	14		6				Regular (5-year)	No
Unk_CO-436	Unk	CO-436	24		4				Regular (5-year)	No
Unk_CO-477	Unk	CO-477	80		4				Regular (5-year)	Yes
Unk_CO-607	Unk	CO-607	25		4				Regular (5-year)	No
Unk_CO-632	Unk	CO-632	29		4				Regular (5-year)	Yes
Unk_CO-660	Unk	CO-660	76		6				Regular (5-year)	No
Unk_N10	Unk	N10	252		8				Regular (5-year)	No
Unk_N12	Unk	N12	462		6				Regular (5-year)	No
Unk_N14	Unk	N14	581		6				Regular (5-year)	No
Unk_N17	Unk	N17	51		8				Regular (5-year)	No
Unk_N17E	Unk	N17E	27		6				Regular (5-year)	No
Unk_N17F	Unk	N17F	20		6				Regular (5-year)	No
Unk_N17H	Unk	N17H	303		6				Regular (5-year)	No
Unk_N21A	Unk	N21A	42		6				Regular (5-year)	Yes
Unk_N22A	Unk	N22A	462		10				Regular (5-year)	Yes
Unk_N23A	Unk	N23A	234		6				Regular (5-year)	No
Unk_N23D	Unk	N23D	34		10				Regular (5-year)	No
Unk_N29	Unk	N29	149		6				6-month	No
Unk_N305	Unk	N305	141		8				6-month	No
Unk_N30E	Unk	N30E	157		6				Regular (5-year)	No
Unk_N32B	Unk	N32B	25		10				Regular (5-year)	No
Unk_N37	Unk	N37	83		6				Regular (5-year)	No
Unk_N47B	Unk	N47B	106		6				Regular (5-year)	No
Unk_N47K	Unk	N47K	79		6				Regular (5-year)	No
Unk_N53	Unk	N53	167		6				12-Month Frequency	No
Unk_N7	Unk	N7	56		10				4-Month Frequency	No
Unk_N7A	Unk	N7A	55		6				Regular (5-year)	No
Unk_N7B	Unk	N7B	20		6				Regular (5-year)	No
Unk_N7B	Unk	N7B	29		6				Regular (5-year)	No
Unk_N8A	Unk	N8A	112		8				4-Month Frequency	No
Unk_S100	Unk	S100	131		6				6-month	No
Unk_S107	Unk	S107	53		6				6-month	No
Unk_S110A	Unk	S110A	32		6				6-month	No
Unk_S113	Unk	S113	34		6				6-month	No
Unk_S114	Unk	S114	60		6				6-month	No
Unk_S121	Unk	S121	60		6				6-month	No
Unk_S121C	Unk	S121C	65		6				6-month	No
Unk_S124	Unk	S124	361		12				Regular (5-year)	No
Unk_S126	Unk	S126	283		6				Regular (5-year)	No
Unk_S129	Unk	S129	441		12				Regular (5-year)	No
Unk_S155	Unk	S155	339		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
Unk_S172	Unk	S172	144		6				Regular (5-year)	No
Unk_S177	Unk	S177	23		21				Regular (5-year)	No
Unk_S180	Unk	S180	11		42				Regular (5-year)	No
Unk_S193	Unk	S193	20		8				Regular (5-year)	No
Unk_S194	Unk	S194	28		6				Regular (5-year)	Yes
Unk_S194	Unk	S194	19		6				Regular (5-year)	Yes
Unk_S197	Unk	S197	10		10				6-month	Yes
Unk_S199	Unk	S199	24		4				Regular (5-year)	Yes
Unk_S19A	Unk	S19A	92		12				4-Month Frequency	No
Unk_S19C	Unk	S19C	256		6				4-month	No
Unk_S201	Unk	S201	20		6				Regular (5-year)	Yes
Unk_S202	Unk	S202	93		6				4-Month Frequency	Yes
Unk_S203F	Unk	S203F	14		6				4-Month Frequency	No
Unk_S203H	Unk	S203H	264		6				4-Month Frequency	No
Unk_S204	Unk	S204	85		8				Regular (5-year)	No
Unk_S208	Unk	S208	22		8				Regular (5-year)	No
Unk_S209	Unk	S209	35		8				Regular (5-year)	No
Unk_S209	Unk	S209	24		8				Regular (5-year)	No
Unk_S211	Unk	S211	26		8				Regular (5-year)	No
Unk_S22	Unk	S22	52		12				Regular (5-year)	No
Unk_S220	Unk	S220	33		6				Regular (5-year)	Yes
Unk_S22A	Unk	S22A	13		6				Regular (5-year)	No
Unk_S22D	Unk	S22D	152		6				Regular (5-year)	No
Unk_S23E	Unk	S23E	40		6				Regular (5-year)	No
Unk_S240B	Unk	S240B	60		6				Regular (5-year)	No
Unk_S247	Unk	S247	249		6				Regular (5-year)	No
Unk_S24B	Unk	S24B	67		6				Regular (5-year)	Yes
Unk_S25	Unk	S25	135		10				4-Month Frequency	No
Unk_S256	Unk	S256	59		8				Regular (5-year)	No
Unk_S25A	Unk	S25A	19		10				Regular (5-year)	No
Unk_S263	Unk	S263	186		10				Regular (5-year)	No
Unk_S271	Unk	S271	206		8				Regular (5-year)	No
Unk_S300	Unk	S300	28		8				Regular (5-year)	No
Unk_S302	Unk	S302	25		12				Regular (5-year)	Yes
Unk_S304	Unk	S304	24		12				Regular (5-year)	Yes
Unk_S305	Unk	S305	25		8				Regular (5-year)	No
Unk_S306	Unk	S306	27		10				Regular (5-year)	No
Unk_S306	Unk	S306	23		10				Regular (5-year)	No
Unk_S306	Unk	S306	28		10				Regular (5-year)	No
Unk_S309	Unk	S309	26		21				Regular (5-year)	No
Unk_S312	Unk	S312	33		8				Regular (5-year)	No
Unk_S313	Unk	S313	153		8				Regular (5-year)	No
Unk_S320	Unk	S320	298		8				Regular (5-year)	No
Unk_S322	Unk	S322	20		8				Regular (5-year)	No
Unk_S322	Unk	S322	23		8				Regular (5-year)	No
Unk_S324	Unk	S324	20		8				Regular (5-year)	No
Unk_S325	Unk	S325	18		8				Regular (5-year)	No
Unk_S325	Unk	S325	16		8				Regular (5-year)	No
Unk_S330	Unk	S330	501		8				Regular (5-year)	No
Unk_S332	Unk	S332	16		8				Regular (5-year)	No
Unk_S332	Unk	S332	41		4				Regular (5-year)	No
Unk_S333	Unk	S333	17		8				Regular (5-year)	Yes
Unk_S335	Unk	S335	22		8				Regular (5-year)	Yes
Unk_S339D	Unk	S339D	26		8				Regular (5-year)	No
Unk_S339D	Unk	S339D	279		10				Regular (5-year)	No
Unk_S339D	Unk	S339D	97		8				Regular (5-year)	No
Unk_S339F	Unk	S339F	138		10				Regular (5-year)	No
Unk_S339H	Unk	S339H	34		10				Regular (5-year)	No
Unk_S340	Unk	S340	49		4				Regular (5-year)	No
Unk_S340	Unk	S340	39		4				Regular (5-year)	No
Unk_S340	Unk	S340	32		8				Regular (5-year)	No
Unk_S344	Unk	S344	28		8				Regular (5-year)	No
Unk_S347	Unk	S347	23		8				Regular (5-year)	No
Unk_S347	Unk	S347	22		8				Regular (5-year)	No
Unk_S348	Unk	S348	22		8				Regular (5-year)	No
Unk_S348	Unk	S348	23		8				Regular (5-year)	No
Unk_S35	Unk	S35	21		6				Regular (5-year)	No
Unk_S358	Unk	S358	19		4				Regular (5-year)	No
Unk_S36	Unk	S36	52		6				Regular (5-year)	No
Unk_S361	Unk	S361	20		8				Regular (5-year)	No
Unk_S362	Unk	S362	20		8				Regular (5-year)	No
Unk_S363	Unk	S363	198		15				Regular (5-year)	No
Unk_S368A	Unk	S368A	16		6				Regular (5-year)	No
Unk_S368A	Unk	S368A	30		6				Regular (5-year)	No
Unk_S369	Unk	S369	21		6				Regular (5-year)	No
Unk_S370	Unk	S370	185		8				Regular (5-year)	No
Unk_S377	Unk	S377	101		18				Regular (5-year)	No
Unk_S377	Unk	S377	143		18				Regular (5-year)	No
Unk_S39A	Unk	S39A	354		8				Regular (5-year)	No
Unk_S40	Unk	S40	398		14				Regular (5-year)	No
Unk_S400	Unk	S400	192		6				Regular (5-year)	No
Unk_S42	Unk	S42	202		6				Regular (5-year)	No
Unk_S42	Unk	S42	181		6				Regular (5-year)	No
Unk_S42A	Unk	S42A	167		6				Regular (5-year)	No
Unk_S42C	Unk	S42C	18		6				Regular (5-year)	No
Unk_S45A	Unk	S45A	207		6				6-Month Frequency	No
Unk_S46C	Unk	S46C	26		6				Regular (5-year)	No
Unk_S48	Unk	S48	16		12				Regular (5-year)	No
Unk_S53F	Unk	S53F	8		10				Regular (5-year)	No
Unk_S56	Unk	S56	43		6				Regular (5-year)	No
Unk_S60K	Unk	S60K	47		6				Regular (5-year)	No
Unk_S62A	Unk	S62A	387		6				Regular (5-year)	No
Unk_S63G	Unk	S63G	24		6				Regular (5-year)	No
Unk_S64G	Unk	S64G	15		6				Regular (5-year)	No
Unk_S71	Unk	S71	77		6				Regular (5-year)	Yes
Unk_S72	Unk	S72	82		4				Regular (5-year)	Yes
Unk_S72	Unk	S72	33		6				Regular (5-year)	No
Unk_S84	Unk	S84	52		6				Regular (5-year)	No
Unk_S85	Unk	S85	157		6				Regular (5-year)	No
Unk_S98	Unk	S98	179		6				12-Month Frequency	No
Unk_Unk	Unk	Unk	40		8				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	140		4				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
Unk_Unk	Unk	Unk	287		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	43		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	65		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	17		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	25		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	344		6				Regular (5-year)	Yes
Unk_Unk	Unk	Unk	75		8				4-Month Frequency	No
Unk_Unk	Unk	Unk	53		8				4-Month Frequency	No
Unk_Unk	Unk	Unk	61		6				4-Month Frequency	No
Unk_Unk	Unk	Unk	66		6				4-Month Frequency	No
Unk_Unk	Unk	Unk	215		6				4-Month Frequency	No
Unk_Unk	Unk	Unk	131		6				12-Month Frequency	No
Unk_Unk	Unk	Unk	247		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	27		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	143		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	96		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	296		6				4-month	No
Unk_Unk	Unk	Unk	16		6				4-month	No
Unk_Unk	Unk	Unk	163		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	16		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	102		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	19		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	156		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	10		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	25		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	20		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	16		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	12		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	69		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	210		12				Regular (5-year)	No
Unk_Unk	Unk	Unk	95		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	59		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	23		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	33		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	188		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	105		12				Regular (5-year)	No
Unk_Unk	Unk	Unk	44		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	83		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	30		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	9		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	233		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	157		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	213		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	65		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	6		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	139		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	15		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	18		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	10		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	147		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	23		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	42		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	42		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	19		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	22		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	138		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	107		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	17		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	193		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	190		12				Regular (5-year)	No
Unk_Unk	Unk	Unk	395		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	103		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	33		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	28		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	238		12				Regular (5-year)	No
Unk_Unk	Unk	Unk	11		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	11		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	10		4				Regular (5-year)	No
Unk_Unk	Unk	Unk	59		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	190		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	16		6				Regular (5-year)	No
Unk_Unk	Unk	Unk	80		20				Regular (5-year)	No
Unk_Unk	Unk	Unk	74		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	13		8				Regular (5-year)	No
Unk_Unk	Unk	Unk	31		18				Regular (5-year)	No
Unk_W103	Unk	W103	305		6				Regular (5-year)	No
Unk_W116	Unk	W116	136		8				6-month	No
Unk_W119	Unk	W119	14		8				Regular (5-year)	No
Unk_W123	Unk	W123	122		8				6-month	No
Unk_W135	Unk	W135	20		8				Regular (5-year)	No
Unk_W145	Unk	W145	120		8				Regular (5-year)	No
Unk_W15	Unk	W15	152		8				Regular (5-year)	No
Unk_W151	Unk	W151	56		6				Regular (5-year)	No
Unk_W152	Unk	W152	14		6				Regular (5-year)	No
Unk_W154	Unk	W154	32		6				Regular (5-year)	No
Unk_W155	Unk	W155	11		6				Regular (5-year)	No
Unk_W157	Unk	W157	51		4				Regular (5-year)	No
Unk_W162	Unk	W162	76		8				Regular (5-year)	No
Unk_W167	Unk	W167	49		10				Regular (5-year)	No
Unk_W17	Unk	W17	19		6				4-Month Frequency	No
Unk_W175	Unk	W175	301		8				Regular (5-year)	No
Unk_W176	Unk	W176	139		8				Regular (5-year)	No
Unk_W18	Unk	W18	16		6				4-Month Frequency	No
Unk_W181	Unk	W181	202		6				Regular (5-year)	No
Unk_W183	Unk	W183	154		15				Regular (5-year)	No
Unk_W184	Unk	W184	14		6				Regular (5-year)	No
Unk_W189	Unk	W189	21		8				Regular (5-year)	No
Unk_W189	Unk	W189	90		8				Regular (5-year)	No
Unk_W190	Unk	W190	76		8				Regular (5-year)	No
Unk_W190	Unk	W190	37		8				Regular (5-year)	No
Unk_W191	Unk	W191	7		8				Regular (5-year)	No
Unk_W195	Unk	W195	72		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
Unk_W196	Unk	W196	57		6				Regular (5-year)	No
Unk_W20	Unk	W20	468		6				4-Month Frequency	No
Unk_W253	Unk	W253	71		8				Regular (5-year)	Yes
Unk_W258	Unk	W258	30		8				Regular (5-year)	No
Unk_W26	Unk	W26	270		8				6-month	No
Unk_W261	Unk	W261	16		8				Regular (5-year)	Yes
Unk_W268	Unk	W268	30		8				Regular (5-year)	No
Unk_W273	Unk	W273	304		8				Regular (5-year)	No
Unk_W279	Unk	W279	324		10				Regular (5-year)	No
Unk_W279	Unk	W279	37		6				Regular (5-year)	No
Unk_W286	Unk	W286	50		6				Regular (5-year)	No
Unk_W290	Unk	W290	17		8				Regular (5-year)	No
Unk_W3	Unk	W3	40		8				Regular (5-year)	No
Unk_W320	Unk	W320	158		6				Regular (5-year)	No
Unk_W336	Unk	W336	28		6				Regular (5-year)	No
Unk_W339	Unk	W339	86		6				4-Month Frequency	No
Unk_W340	Unk	W340	25		6				4-month	No
Unk_W341	Unk	W341	15		6				4-month	No
Unk_W350	Unk	W350	16		10				Regular (5-year)	No
Unk_W366	Unk	W366	108		6				Regular (5-year)	No
Unk_W368	Unk	W368	31		6				Regular (5-year)	No
Unk_W369	Unk	W369	114		6				Regular (5-year)	No
Unk_W371	Unk	W371	15		6				Regular (5-year)	No
Unk_W384	Unk	W384	140		6				Regular (5-year)	No
Unk_W385	Unk	W385	12		12				Regular (5-year)	No
Unk_W397	Unk	W397	355		15				Regular (5-year)	Yes
Unk_W397	Unk	W397	118		8				Regular (5-year)	No
Unk_W403	Unk	W403	13		8				Regular (5-year)	No
Unk_W404	Unk	W404	252		8				Regular (5-year)	Yes
Unk_W429	Unk	W429	18		6				Regular (5-year)	No
Unk_W438	Unk	W438	13		6				6-month	No
Unk_W439	Unk	W439	12		6				4-Month Frequency	Yes
Unk_W446	Unk	W446	22		6				Regular (5-year)	No
Unk_W447	Unk	W447	20		6				Regular (5-year)	No
Unk_W448	Unk	W448	35		6				Regular (5-year)	No
Unk_W469	Unk	W469	221		6				Regular (5-year)	No
Unk_W47	Unk	W47	160		8				4-Month Frequency	No
Unk_W473	Unk	W473	275		8				Regular (5-year)	No
Unk_W473	Unk	W473	26		8				Regular (5-year)	No
Unk_W475	Unk	W475	53		8				Regular (5-year)	No
Unk_W477	Unk	W477	7		4				Regular (5-year)	No
Unk_W478	Unk	W478	7		4				Regular (5-year)	No
Unk_W484	Unk	W484	324		10				Regular (5-year)	No
Unk_W491	Unk	W491	10		8				Regular (5-year)	No
Unk_W497	Unk	W497	60		8				Regular (5-year)	No
Unk_W498	Unk	W498	145		6				4-Month Frequency	No
Unk_W498	Unk	W498	100		10				4-Month Frequency	No
Unk_W510	Unk	W510	21		6				Regular (5-year)	No
Unk_W521	Unk	W521	272		6				6-month	No
Unk_W569	Unk	W569	631		6				Regular (5-year)	No
Unk_W574	Unk	W574	102		6				Regular (5-year)	No
Unk_W579	Unk	W579	186		8				Regular (5-year)	No
Unk_W581	Unk	W581	243		8				Regular (5-year)	No
Unk_W611	Unk	W611	18		8				Regular (5-year)	No
Unk_W611	Unk	W611	22		8				Regular (5-year)	No
Unk_W616	Unk	W616	26		6				Regular (5-year)	No
Unk_W617	Unk	W617	25		6				Regular (5-year)	No
Unk_W664	Unk	W664	16		8				Regular (5-year)	No
Unk_W673	Unk	W673	30		8				Regular (5-year)	No
Unk_W673	Unk	W673	32		8				Regular (5-year)	No
Unk_W674	Unk	W674	33		18				Regular (5-year)	No
Unk_W679	Unk	W679	166		8				Regular (5-year)	No
Unk_W688	Unk	W688	159		8				Regular (5-year)	No
Unk_W70	Unk	W70	142		6				6-month	No
Unk_W718	Unk	W718	24		8				Regular (5-year)	No
Unk_W718	Unk	W718	27		8				Regular (5-year)	No
Unk_W737	Unk	W737	300		6				6-month	No
Unk_W738	Unk	W738	7		4				Regular (5-year)	No
Unk_W746	Unk	W746	122		12				Regular (5-year)	No
Unk_W747	Unk	W747	245		12				Regular (5-year)	No
Unk_W747	Unk	W747	35		15				Regular (5-year)	No
Unk_W747	Unk	W747	26		12				Regular (5-year)	No
Unk_W748	Unk	W748	240		6				Regular (5-year)	No
Unk_W76	Unk	W76	111		6				Regular (5-year)	No
Unk_W77	Unk	W77	104		8				Regular (5-year)	No
Unk_W78	Unk	W78	22		8				Regular (5-year)	No
Unk_W79	Unk	W79	39		8				Regular (5-year)	No
Unk_W813	Unk	W813	100		12				Regular (5-year)	Yes
Unk_W83	Unk	W83	66		8				4-Month Frequency	No
Unk_W86	Unk	W86	134		6				Regular (5-year)	No
Unk_W876	Unk	W876	103		8				Regular (5-year)	No
Unk_W89	Unk	W89	90		6				Regular (5-year)	No
Unk_W927	Unk	W927	12		6				Regular (5-year)	No
Unk_W928	Unk	W928	34		4				Regular (5-year)	No
Unk_W97	Unk	W97	97		6				Regular (5-year)	No
W1_Unk	W1	Unk	370		6				Regular (5-year)	No
W10_W11	W10	W11	379		8				Regular (5-year)	No
W100_S47E	W100	S47E	257		6				Regular (5-year)	No
W101_S47A	W101	S47A	399		6				Regular (5-year)	No
W102_S56A	W102	S56A	221		6				Regular (5-year)	No
W103_S46C	W103	S46C	63		6				Regular (5-year)	No
W104_W94	W104	W94	143		6				Regular (5-year)	No
W105_W104	W105	W104	253		8				Regular (5-year)	No
W106_W92	W106	W92	116		6				Regular (5-year)	No
W107_W106	W107	W106	83		6				Regular (5-year)	No
W108_W139	W108	W139	329		6				Regular (5-year)	No
W109_W110	W109	W110	155		8				4-Month Frequency	No
W11_W2	W11	W2	411		8				Regular (5-year)	No
W110_S320	W110	S320	468		27				Regular (5-year)	No
W111_W109	W111	W109	108		8				6-month	No
W112_W111	W112	W111	255		8				6-month	No
W113_Unk	W113	Unk	231		8				6-month	No

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Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W114_W115	W114	W115	155		8				6-month	No
W115_W116	W115	W116	161		8				6-month	No
W116_W113	W116	W113	240		8				6-month	No
W117_W116	W117	W116	203		8				6-month	No
W118_W113	W118	W113	193		8				6-month	No
W119_W120	W119	W120	299		8				Regular (5-year)	No
W12_W10	W12	W10	358		8				Regular (5-year)	No
W120_W110	W120	W110	132		8				Regular (5-year)	No
W121_S316	W121	S316	498		27				Regular (5-year)	No
W122_W30	W122	W30	264		8				6-month	No
W123_W30	W123	W30	248		8				6-month	No
W124_W123	W124	W123	169		8				6-month	No
W125_W123	W125	W123	257		8				6-month	No
W126_W125	W126	W125	200		8				6-month	No
W127_W125	W127	W125	319		8				6-month	No
W128_W127	W128	W127	263		8				6-month	No
W129_W125	W129	W125	300		8				Regular (5-year)	No
W13_W12	W13	W12	156		8				Regular (5-year)	No
W130_W129	W130	W129	195		8				Regular (5-year)	No
W131_W130	W131	W130	172		8				Regular (5-year)	No
W132_W219	W132	W219	273		8				Regular (5-year)	No
W133_W129	W133	W129	297		8				Regular (5-year)	No
W134_W133	W134	W133	148		8				Regular (5-year)	No
W135_Unk	W135	Unk	50		8				Regular (5-year)	No
W136_Unk	W136	Unk	34		6				Regular (5-year)	No
W137_S62	W137	S62	122		6				4-Month Frequency	No
W138_W137	W138	W137	26		6				6-month	No
W139_W138	W139	W138	37		6				6-month	No
W14_W13	W14	W13	62		8				Regular (5-year)	No
W140_S62A	W140	S62A	139		8				Regular (5-year)	No
W141_W140	W141	W140	118		8				Regular (5-year)	No
W142_S39A	W142	S39A	336		14				Regular (5-year)	No
W144_W209	W144	W209	318		8				Regular (5-year)	No
W145_Unk	W145	Unk	53		8				Regular (5-year)	No
W146_W147	W146	W147	406		8				Regular (5-year)	No
W147_S312A	W147	S312A	188		8				Regular (5-year)	No
W148_S315	W148	S315	253		8				Regular (5-year)	No
W149_S359	W149	S359	149		6				Regular (5-year)	No
W15_W14	W15	W14	52		8				Regular (5-year)	No
W150_W149	W150	W149	155		6				Regular (5-year)	No
W151_S367	W151	S367	237		15				Regular (5-year)	No
W152_Unk	W152	Unk	68		6				Regular (5-year)	No
W153_W154	W153	W154	369		6				Regular (5-year)	No
W154_S343	W154	S343	125		6				Regular (5-year)	No
W155_Unk	W155	Unk	19		6				Regular (5-year)	No
W156_S53G	W156	S53G	195		6				Regular (5-year)	No
W157_W158	W157	W158	292		8				Regular (5-year)	No
W158_Unk	W158	Unk	212		8				Regular (5-year)	No
W159_S339C	W159	S339C	92		10				Regular (5-year)	No
W16_W19	W16	W19	175		6				6-month	No
W164_S339C	W164	S339C	35		8				Regular (5-year)	No
W165_W159	W165	W159	313		10				Regular (5-year)	No
W166_W165	W166	W165	194		10				Regular (5-year)	No
W167_W166	W167	W166	226		10				Regular (5-year)	No
W168_Unk	W168	Unk	166		10				Regular (5-year)	No
W169_W168	W169	W168	217		10				Regular (5-year)	Yes
W17_W16	W17	W16	111		6				4-Month Frequency	No
W170_S339H	W170	S339H	19		10				Regular (5-year)	No
W171_W179	W171	W179	223		8				Regular (5-year)	No
W172_W171	W172	W171	275		8				Regular (5-year)	No
W173_W172	W173	W172	298		8				Regular (5-year)	No
W174_W173	W174	W173	245		8				Regular (5-year)	No
W175_W174	W175	W174	307		8				Regular (5-year)	No
W178_S333	W178	S333	28		21				Regular (5-year)	Yes
W179_W180	W179	W180	197		8				Regular (5-year)	No
W18_W17	W18	W17	252		6				4-Month Frequency	No
W180_W181	W180	W181	57		8				Regular (5-year)	No
W181_W178	W181	W178	112		8				Regular (5-year)	Yes
W182_W151	W182	W151	217		15				Regular (5-year)	No
W183_W182	W183	W182	253		15				Regular (5-year)	No
W184_W182	W184	W182	91		6				Regular (5-year)	No
W185_Unk	W185	Unk	61		8				Regular (5-year)	No
W186_W185	W186	W185	225		8				Regular (5-year)	No
W187_W186	W187	W186	224		8				Regular (5-year)	No
W188_S129	W188	S129	137		8				Regular (5-year)	No
W189_W188	W189	W188	176		8				Regular (5-year)	No
W19_W20	W19	W20	233		6				6-month	No
W190_Unk	W190	Unk	75		8				Regular (5-year)	No
W191_Unk	W191	Unk	220		8				Regular (5-year)	No
W192_W193	W192	W193	137		6				Regular (5-year)	No
W193_S145	W193	S145	96		6				Regular (5-year)	No
W194_Unk	W194	Unk	35		6				Regular (5-year)	No
W196_W195	W196	W195	57		6				Regular (5-year)	No
W197_Unk	W197	Unk	14		4				Regular (5-year)	No
W197_W196	W197	W196	82		4				Regular (5-year)	No
W198_W156	W198	W156	219		6				Regular (5-year)	No
W199_W198	W199	W198	165		6				Regular (5-year)	No
W2_N33	W2	N33	71		10				Regular (5-year)	No
W20_N27	W20	N27	369		6				6-month	No
W200_W199	W200	W199	173		6				Regular (5-year)	No
W201_S123A	W201	S123A	303		12				Regular (5-year)	No
W202_W201	W202	W201	130		8				Regular (5-year)	No
W203_W202	W203	W202	79		8				Regular (5-year)	No
W204_W203	W204	W203	124		8				Regular (5-year)	No
W205_W204	W205	W204	320		8				Regular (5-year)	No
W206_W205	W206	W205	293		8				Regular (5-year)	No
W207_W206	W207	W206	156		8				Regular (5-year)	No
W208_W212	W208	W212	306		8				Regular (5-year)	No
W209_W210	W209	W210	301		8				Regular (5-year)	No
W21_W22	W21	W22	365		6				4-Month Frequency	No
W210_W211	W210	W211	313		8				Regular (5-year)	No
W211_W214	W211	W214	299		8				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W212_W213	W212	W213	291		8				Regular (5-year)	No
W213_W818	W213	W818	256		8				Regular (5-year)	No
W214_W213	W214	W213	253		8				Regular (5-year)	No
W216_W218	W216	W218	263		8				Regular (5-year)	No
W217_W216	W217	W216	11		8				Regular (5-year)	No
W218_W226	W218	W226	60		8				Regular (5-year)	No
W219_W218	W219	W218	301		8				Regular (5-year)	No
W22_Unk	W22	Unk	289		6				4-Month Frequency	No
W220_W126	W220	W126	172		8				6-month	No
W221_W222	W221	W222	274		8				6-month	No
W222_W229	W222	W229	244		8				6-month	No
W223_W222	W223	W222	161		8				6-month	No
W224_W223	W224	W223	103		8				6-month	No
W225_W224	W225	W224	149		8				Regular (5-year)	No
W226_W225	W226	W225	141		8				Regular (5-year)	No
W227_W30	W227	W30	319		8				6-month	No
W228_W229	W228	W229	264		8				6-month	No
W229_Unk	W229	Unk	91		8				6-month	No
W23_Unk	W23	Unk	108		6				4-Month Frequency	No
W230_W231	W230	W231	183		8				Regular (5-year)	No
W231_W224	W231	W224	185		8				Regular (5-year)	No
W232_W233	W232	W233	219		8				Regular (5-year)	No
W233_W234	W233	W234	65		8				Regular (5-year)	No
W234_W214	W234	W214	210		8				Regular (5-year)	No
W235_W238	W235	W238	228		8				Regular (5-year)	No
W236_W235	W236	W235	208		8				Regular (5-year)	No
W237_W236	W237	W236	221		8				Regular (5-year)	No
W238_W242	W238	W242	199		8				Regular (5-year)	No
W239_W241	W239	W241	260		8				Regular (5-year)	No
W24_W25	W24	W25	294		6				6-month	No
W240_W239	W240	W239	56		8				Regular (5-year)	No
W241_W238	W241	W238	269		8				Regular (5-year)	No
W242_W243	W242	W243	73		8				Regular (5-year)	No
W243_W245	W243	W245	216		8				Regular (5-year)	No
W244_W246	W244	W246	76		8				Regular (5-year)	No
W245_W244	W245	W244	285		8				Regular (5-year)	No
W246_W247	W246	W247	154		8				Regular (5-year)	No
W247_W248	W247	W248	233		8				Regular (5-year)	No
W248_Unk	W248	Unk	163		8				Regular (5-year)	No
W249_W247	W249	W247	205		8				Regular (5-year)	No
W25_N25	W25	N25	106		6				6-month	No
W250_W249	W250	W249	297		8				Regular (5-year)	No
W251_W248	W251	W248	200		8				Regular (5-year)	No
W252_W251	W252	W251	203		8				Regular (5-year)	No
W254_W255	W254	W255	96		8				Regular (5-year)	No
W255_W256	W255	W256	201		8				Regular (5-year)	No
W256_W253	W256	W253	201		8				Regular (5-year)	Yes
W257_W254	W257	W254	56		8				Regular (5-year)	No
W258_W257	W258	W257	19		8				Regular (5-year)	No
W259_W253	W259	W253	249		8				Regular (5-year)	Yes
W26_Unk	W26	Unk	66		8				6-month	No
W26_W27	W26	W27	34		8				6-month	No
W260_W259	W260	W259	368		8				Regular (5-year)	Yes
W261_W253	W261	W253	86		8				Regular (5-year)	Yes
W262_W248	W262	W248	135		8				Regular (5-year)	No
W263_W247	W263	W247	231		8				Regular (5-year)	No
W264_W263	W264	W263	103		8				Regular (5-year)	No
W265_W264	W265	W264	107		8				Regular (5-year)	Yes
W266_W246	W266	W246	83		8				Regular (5-year)	No
W267_W268	W267	W268	136		8				Regular (5-year)	No
W268_W266	W268	W266	109		8				Regular (5-year)	No
W269_W265	W269	W265	236		8				Regular (5-year)	Yes
W27_W30	W27	W30	228		8				6-month	No
W270_W267	W270	W267	310		8				Regular (5-year)	No
W271_W267	W271	W267	228		8				Regular (5-year)	No
W272_W271	W272	W271	253		8				Regular (5-year)	No
W273_S59	W273	S59	39		6				Regular (5-year)	No
W275_S61	W275	S61	67		6				Regular (5-year)	No
W276_S60G	W276	S60G	167		6				Regular (5-year)	No
W277_W275	W277	W275	121		6				Regular (5-year)	No
W278_W287	W278	W287	179		6				Regular (5-year)	No
W279_W283	W279	W283	320		18				Regular (5-year)	No
W28_Unk	W28	Unk	40		8				6-month	No
W280_W279	W280	W279	177		8				Regular (5-year)	No
W281_W280	W281	W280	140		8				Regular (5-year)	No
W282_W281	W282	W281	238		8				Regular (5-year)	No
W283_W284	W283	W284	269		18				Regular (5-year)	No
W284_S17	W284	S17	36		18				Regular (5-year)	No
W285_S379A	W285	S379A	41		18				Regular (5-year)	No
W286_S65C	W286	S65C	147		6				6-Month Frequency	No
W287_Unk	W287	Unk	149		6				Regular (5-year)	No
W288_S9	W288	S9	17		14				Regular (5-year)	No
W289_S5	W289	S5	101		14				Regular (5-year)	No
W29_W28	W29	W28	156		8				6-month	No
W290_Unk	W290	Unk	43		8				Regular (5-year)	No
W291_S311	W291	S311	174		10				Regular (5-year)	No
W292_S62A	W292	S62A	260		6				Regular (5-year)	No
W293_W141	W293	W141	218		8				Regular (5-year)	No
W294_W293	W294	W293	235		8				Regular (5-year)	No
W295_W294	W295	W294	58		8				Regular (5-year)	No
W296_W294	W296	W294	267		8				Regular (5-year)	No
W297_W296	W297	W296	79		8				Regular (5-year)	No
W298_W299	W298	W299	188		8				Regular (5-year)	No
W299_S64	W299	S64	114		6				Regular (5-year)	No
W3_W4	W3	W4	63		8				Regular (5-year)	No
W300_S11E	W300	S11E	272		6				Regular (5-year)	No
W301_W302	W301	W302	361		24				Regular (5-year)	No
W302_W303	W302	W303	392		24				4-month	No
W303_W304	W303	W304	350		24				4-month	No
W304_W305	W304	W305	392		24				4-Month Frequency	No
W305_W288	W305	W288	227		24				Regular (5-year)	No
W306_S12	W306	S12	167		6				4-Month Frequency	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W307_W306	W307	W306	66		6				4-Month Frequency	No
W308_W307	W308	W307	232		6				4-month	No
W309_S384	W309	S384	201		10				Regular (5-year)	No
W31_W29	W31	W29	223		8				6-month	No
W310_W309	W310	W309	117		10				Regular (5-year)	No
W311_W310	W311	W310	296		10				Regular (5-year)	No
W312_W311	W312	W311	132		10				Regular (5-year)	No
W313_S390	W313	S390	218		8				Regular (5-year)	No
W314_W313	W314	W313	162		8				Regular (5-year)	No
W315_W314	W315	W314	140		8				Regular (5-year)	No
W316_W315	W316	W315	229		8				Regular (5-year)	No
W317_W316	W317	W316	229		6				Regular (5-year)	No
W318_W317	W318	W317	284		6				Regular (5-year)	No
W319_W316	W319	W316	344		6				Regular (5-year)	No
W32_W33	W32	W33	103		8				6-month	No
W320_W321	W320	W321	140		6				Regular (5-year)	No
W321_S403	W321	S403	443		6				Regular (5-year)	No
W322_S412	W322	S412	225		8				Regular (5-year)	No
W323_W322	W323	W322	225		8				Regular (5-year)	No
W324_W323	W324	W323	90		8				Regular (5-year)	No
W325_W324	W325	W324	199		8				Regular (5-year)	No
W326_W325	W326	W325	342		8				Regular (5-year)	No
W327_W326	W327	W326	204		8				Regular (5-year)	No
W328_W327	W328	W327	345		8				Regular (5-year)	No
W329_W330	W329	W330	245		6				Regular (5-year)	No
W33_W34	W33	W34	253		8				6-month	No
W330_W332	W330	W332	300		6				Regular (5-year)	No
W331_W323	W331	W323	162		6				Regular (5-year)	No
W332_W331	W332	W331	316		6				Regular (5-year)	No
W333_W301	W333	W301	340		24				Regular (5-year)	No
W334_W333	W334	W333	143		24				Regular (5-year)	No
W335_S35	W335	S35	222		6				Regular (5-year)	No
W336_S20	W336	S20	48		6				4-month	No
W337_Unk	W337	Unk	97		12				4-Month Frequency	No
W338_S12B	W338	S12B	246		6				4-Month Frequency	No
W339_W338	W339	W338	119		6				4-Month Frequency	No
W34_W80	W34	W80	288		8				6-month	No
W340_Unk	W340	Unk	63		6				4-month	No
W341_Unk	W341	Unk	15		6				4-month	No
W342_W344	W342	W344	166		6				Regular (5-year)	No
W343_S22A	W343	S22A	22		6				Regular (5-year)	No
W344_W343	W344	W343	74		6				Regular (5-year)	No
W345_W344	W345	W344	105		6				Regular (5-year)	No
W346_W345	W346	W345	140		6				Regular (5-year)	No
W347_S23	W347	S23	323		12				Regular (5-year)	No
W347_Unk	W347	Unk	211		10				4-Month Frequency	No
W348_S5	W348	S5	599		6				Regular (5-year)	No
W349_S25	W349	S25	302		6				Regular (5-year)	No
W35_W33	W35	W33	197		8				6-month	No
W350_Unk	W350	Unk	111		10				6-month	No
W351_S189	W351	S189	272		24				Regular (5-year)	Yes
W352_S74	W352	S74	269		6				Regular (5-year)	Yes
W353_W354	W353	W354	153		24				Regular (5-year)	Yes
W354_W355	W354	W355	262		24				Regular (5-year)	Yes
W355_S185	W355	S185	336		24				Regular (5-year)	Yes
W356_W352	W356	W352	306		8				Regular (5-year)	Yes
W357_W356	W357	W356	299		8				Regular (5-year)	No
W358_W359	W358	W359	303		8				Regular (5-year)	Yes
W359_W360	W359	W360	149		8				Regular (5-year)	Yes
W36_W37	W36	W37	222		8				6-month	No
W360_W361	W360	W361	125		8				Regular (5-year)	Yes
W361_W362	W361	W362	90		8				Regular (5-year)	Yes
W362_W363	W362	W363	120		8				Regular (5-year)	No
W363_W364	W363	W364	248		8				Regular (5-year)	No
W364_S69	W364	S69	346		6				Regular (5-year)	Yes
W365_W361	W365	W361	143		8				Regular (5-year)	Yes
W366_S73	W366	S73	192		6				Regular (5-year)	No
W367_Unk	W367	Unk	20		6				Regular (5-year)	No
W368_W367	W368	W367	25		6				Regular (5-year)	No
W369_Unk	W369	Unk	27		6				Regular (5-year)	No
W37_W80	W37	W80	207		6				4-Month Frequency	No
W370_S83	W370	S83	83		6				Regular (5-year)	No
W371_Unk	W371	Unk	84		6				Regular (5-year)	No
W372_W374	W372	W374	235		8				Regular (5-year)	No
W373_W372	W373	W372	188		8				Regular (5-year)	No
W374_N3A	W374	N3A	22		8				Regular (5-year)	No
W375_W376	W375	W376	56		8				Regular (5-year)	No
W376_W377	W376	W377	53		8				Regular (5-year)	No
W377_N2B	W377	N2B	136		15				Regular (5-year)	No
W378_N2I	W378	N2I	203		6				Regular (5-year)	No
W379_W378	W379	W378	150		6				Regular (5-year)	No
W38_W36	W38	W36	213		8				6-month	No
W380_W858	W380	W858	251		8				Regular (5-year)	No
W382_W900	W382	W900	68		8				Regular (5-year)	No
W383_Unk	W383	Unk	74		6				Regular (5-year)	No
W384_N41D	W384	N41D	65		6				Regular (5-year)	No
W385_W389	W385	W389	171		12				Regular (5-year)	No
W386_Unk	W386	Unk	14		12				Regular (5-year)	No
W387_W386	W387	W386	242		12				Regular (5-year)	No
W388_W387	W388	W387	47		12				Regular (5-year)	No
W389_W390	W389	W390	88		12				Regular (5-year)	No
W39_W37	W39	W37	207		8				4-Month Frequency	No
W390_W391	W390	W391	60		12				Regular (5-year)	No
W391_W392	W391	W392	110		12				Regular (5-year)	No
W392_W393	W392	W393	142		12				Regular (5-year)	No
W393_W394	W393	W394	130		12				Regular (5-year)	No
W394_W395	W394	W395	61		12				Regular (5-year)	No
W395_W396	W395	W396	59		12				Regular (5-year)	No
W396_Unk	W396	Unk	54		12				Regular (5-year)	No
W397_W901	W397	W901	253		15				Regular (5-year)	No
W398_Unk	W398	Unk	711		15				Regular (5-year)	Yes
W399_W398	W399	W398	55		15				Regular (5-year)	Yes

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Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W4_W5	W4	W5	424		8				Regular (5-year)	No
W40_W39	W40	W39	239		8				4-Month Frequency	No
W400_W399	W400	W399	204		12				Regular (5-year)	Yes
W401_W400	W401	W400	137		12				Regular (5-year)	Yes
W402_W401	W402	W401	42		12				Regular (5-year)	No
W403_W402	W403	W402	214		8				Regular (5-year)	No
W404_Unk	W404	Unk	255		8				Regular (5-year)	No
W406_N47G	W406	N47G	248		6				Regular (5-year)	No
W407_W328	W407	W328	249		8				Regular (5-year)	No
W408_W407	W408	W407	194		8				Regular (5-year)	No
W409_W408	W409	W408	222		8				Regular (5-year)	No
W41_W40	W41	W40	219		8				4-Month Frequency	No
W410_W412	W410	W412	230		8				Regular (5-year)	No
W411_W410	W411	W410	61		8				Regular (5-year)	No
W412_W413	W412	W413	133		8				Regular (5-year)	No
W413_W417	W413	W417	273		8				Regular (5-year)	No
W414_W415	W414	W415	150		8				Regular (5-year)	No
W415_W422	W415	W422	212		8				Regular (5-year)	No
W416_W417	W416	W417	127		6				Regular (5-year)	No
W417_W433	W417	W433	167		8				Regular (5-year)	No
W418_W417	W418	W417	163		8				Regular (5-year)	No
W419_W418	W419	W418	173		8				Regular (5-year)	No
W42_W41	W42	W41	215		8				4-Month Frequency	No
W420_W419	W420	W419	138		8				Regular (5-year)	No
W421_W420	W421	W420	129		8				Regular (5-year)	No
W422_W421	W422	W421	100		8				Regular (5-year)	No
W423_W422	W423	W422	283		8				Regular (5-year)	No
W424_W425	W424	W425	258		6				Regular (5-year)	No
W425_W431	W425	W431	293		6				Regular (5-year)	No
W426_W430	W426	W430	169		8				Regular (5-year)	No
W427_W426	W427	W426	150		8				Regular (5-year)	No
W428_W427	W428	W427	139		8				Regular (5-year)	No
W429_W428	W429	W428	55		8				Regular (5-year)	No
W430_W431	W430	W431	238		10				Regular (5-year)	No
W431_W432	W431	W432	216		10				Regular (5-year)	No
W432_W433	W432	W433	328		10				Regular (5-year)	No
W433_W434	W433	W434	144		10				Regular (5-year)	No
W434_S421	W434	S421	309		10				Regular (5-year)	No
W435_S25B	W435	S25B	229		10				Regular (5-year)	No
W436_S91	W436	S91	143		8				Regular (5-year)	No
W437_S25C	W437	S25C	298		6				Regular (5-year)	No
W438_Unk	W438	Unk	15		6				6-month	No
W439_Unk	W439	Unk	18		6				4-Month Frequency	Yes
W44_W43	W44	W43	102		8				4-Month Frequency	No
W441_S206	W441	S206	72		18				Regular (5-year)	No
W442_CO-375	W442	CO-375	26		6				Regular (5-year)	No
W442_W441	W442	W441	168		6				Regular (5-year)	No
W443_W442	W443	W442	146		18				Regular (5-year)	No
W446_S207	W446	S207	147		6				Regular (5-year)	No
W447_S207	W447	S207	140		24				Regular (5-year)	No
W448_S208	W448	S208	92		24				Regular (5-year)	No
W449_W448	W449	W448	48		24				Regular (5-year)	No
W45_W48	W45	W48	134		8				4-Month Frequency	No
W450_S209	W450	S209	69		18				Regular (5-year)	No
W452_W450	W452	W450	212		8				Regular (5-year)	No
W453_W452	W453	W452	126		8				Regular (5-year)	Yes
W454_W452	W454	W452	224		8				Regular (5-year)	No
W455_W449	W455	W449	206		8				Regular (5-year)	No
W456_W455	W456	W455	96		8				Regular (5-year)	No
W457_W456	W457	W456	130		8				Regular (5-year)	Yes
W458_W465	W458	W465	290		18				Regular (5-year)	Yes
W459_W458	W459	W458	179		8				Regular (5-year)	No
W46_W45	W46	W45	213		8				4-Month Frequency	No
W460_W461	W460	W461	214		8				Regular (5-year)	No
W461_W459	W461	W459	218		8				Regular (5-year)	No
W462_W460	W462	W460	261		8				Regular (5-year)	No
W463_W443	W463	W443	134		18				Regular (5-year)	No
W464_W463	W464	W463	245		18				Regular (5-year)	Yes
W464_W465	W464	W465	116		12				Regular (5-year)	Yes
W465_W464	W465	W464	118		8				Regular (5-year)	Yes
W466_W458	W466	W458	395		18				Regular (5-year)	No
W467_W466	W467	W466	231		18				Regular (5-year)	No
W468_W370	W468	W370	132		6				Regular (5-year)	No
W469_W468	W469	W468	128		6				Regular (5-year)	No
W47_W46	W47	W46	98		8				4-Month Frequency	No
W470_Unk	W470	Unk	21		6				Regular (5-year)	No
W471_N19	W471	N19	176		6				6-Month Frequency	No
W472_N15	W472	N15	280		6				Regular (5-year)	No
W473_W472	W473	W472	407		6				Regular (5-year)	No
W474_Unk	W474	Unk	67		8				Regular (5-year)	No
W475_Unk	W475	Unk	19		8				Regular (5-year)	No
W476_Unk	W476	Unk	19		4				Regular (5-year)	No
W477_Unk	W477	Unk	13		4				Regular (5-year)	No
W478_Unk	W478	Unk	10		4				Regular (5-year)	No
W479_N17B	W479	N17B	123		6				Regular (5-year)	Yes
W48_W44	W48	W44	149		8				4-Month Frequency	No
W480_N17A	W480	N17A	49		6				Regular (5-year)	No
W481_W480	W481	W480	64		6				Regular (5-year)	No
W482_W481	W482	W481	98		6				Regular (5-year)	No
W483_W482	W483	W482	39		6				Regular (5-year)	No
W484_W485	W484	W485	130		15				Regular (5-year)	No
W485_N4	W485	N4	263		15				Regular (5-year)	No
W485_Unk	W485	Unk	28		15				Regular (5-year)	No
W486_W484	W486	W484	440		15				Regular (5-year)	No
W487_N6	W487	N6	224		10				4-Month Frequency	No
W49_W42	W49	W42	77		8				4-Month Frequency	No
W491_W492	W491	W492	88		8				Regular (5-year)	No
W492_W494	W492	W494	164		8				Regular (5-year)	No
W493_W492	W493	W492	104		8				Regular (5-year)	No
W494_W487	W494	W487	153		10				4-Month Frequency	No
W495_W493	W495	W493	145		8				Regular (5-year)	No
W496_W495	W496	W495	274		8				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W497_W496	W497	W496	145		8				Regular (5-year)	No
W498_W494	W498	W494	199		10				4-Month Frequency	No
W499_N7	W499	N7	27		8				6-month	No
W5_W10	W5	W10	457		8				Regular (5-year)	No
W50_W51	W50	W51	315		8				6-month	No
W500_W499	W500	W499	67		6				4-Month Frequency	No
W501_W500	W501	W500	84		6				4-Month Frequency	No
W502_W501	W502	W501	163		6				4-Month Frequency	No
W503_Unk	W503	Unk	284		8				4-Month Frequency	No
W504_W467	W504	W467	232		18				Regular (5-year)	No
W505_N7E	W505	N7E	88		6				4-Month Frequency	No
W506_W505	W506	W505	62		6				4-Month Frequency	No
W507_W505	W507	W505	45		6				4-Month Frequency	No
W508_N42	W508	N42	195		6				Regular (5-year)	No
W509_W508	W509	W508	25		6				Regular (5-year)	No
W51_W52	W51	W52	290		8				6-month	No
W510_W509	W510	W509	247		6				Regular (5-year)	No
W511_W512	W511	W512	137		12				Regular (5-year)	No
W512_W513	W512	W513	45		12				Regular (5-year)	No
W513_W514	W513	W514	62		12				Regular (5-year)	No
W514_W388	W514	W388	136		12				Regular (5-year)	No
W515_W486	W515	W486	366		15				Regular (5-year)	No
W516_W515	W516	W515	281		15				Regular (5-year)	No
W517_W516	W517	W516	521		15				Regular (5-year)	Yes
W518_W517	W518	W517	283		15				Regular (5-year)	Yes
W519_W521	W519	W521	205		6				6-month	No
W52_W39	W52	W39	208		8				6-month	No
W520_N45J	W520	N45J	196		8				Regular (5-year)	No
W521_N49	W521	N49	39		6				6-month	No
W522_N40B	W522	N40B	209		6				Regular (5-year)	No
W523_W522	W523	W522	284		8				Regular (5-year)	No
W524_N40M	W524	N40M	169		8				Regular (5-year)	No
W525_W524	W525	W524	83		8				Regular (5-year)	No
W526_W525	W526	W525	258		8				Regular (5-year)	No
W527_W526	W527	W526	313		8				Regular (5-year)	No
W528_W527	W528	W527	201		8				Regular (5-year)	No
W529_N40U	W529	N40U	112		8				Regular (5-year)	No
W53_W52	W53	W52	207		8				6-month	No
W530_W529	W530	W529	99		6				Regular (5-year)	No
W531_W530	W531	W530	123		6				Regular (5-year)	No
W532_W531	W532	W531	85		6				Regular (5-year)	No
W533_W530	W533	W530	195		6				Regular (5-year)	No
W534_W533	W534	W533	154		6				Regular (5-year)	No
W535_W534	W535	W534	161		6				Regular (5-year)	No
W536_W535	W536	W535	144		6				Regular (5-year)	No
W537_W429	W537	W429	135		8				Regular (5-year)	No
W538_W537	W538	W537	113		6				Regular (5-year)	No
W539_W538	W539	W538	293		8				Regular (5-year)	No
W54_W53	W54	W53	202		8				6-month	No
W540_W539	W540	W539	212		8				Regular (5-year)	No
W541_W539	W541	W539	281		6				Regular (5-year)	No
W542_W541	W542	W541	99		6				Regular (5-year)	No
W543_W426	W543	W426	263		8				Regular (5-year)	No
W544_W543	W544	W543	250		8				Regular (5-year)	No
W545_W429	W545	W429	100		8				Regular (5-year)	No
W546_W545	W546	W545	303		8				Regular (5-year)	No
W547_W538	W547	W538	199		6				Regular (5-year)	No
W548_W547	W548	W547	331		6				Regular (5-year)	No
W549_W599	W549	W599	374		8				Regular (5-year)	No
W55_W53	W55	W53	281		8				6-month	No
W550_W548	W550	W548	236		6				Regular (5-year)	No
W551_W550	W551	W550	242		6				Regular (5-year)	No
W552_W548	W552	W548	226		6				Regular (5-year)	No
W553_W554	W553	W554	184		6				Regular (5-year)	No
W554_W552	W554	W552	195		6				Regular (5-year)	No
W556_W600	W556	W600	164		6				Regular (5-year)	No
W557_W554	W557	W554	172		6				Regular (5-year)	No
W558_W557	W558	W557	85		6				Regular (5-year)	No
W559_W556	W559	W556	276		6				Regular (5-year)	No
W56_W55	W56	W55	243		8				6-month	No
W560_W559	W560	W559	451		6				Regular (5-year)	No
W561_S112E	W561	S112E	68		6				Regular (5-year)	No
W562_S112F	W562	S112F	91		6				Regular (5-year)	No
W563_W562	W563	W562	217		6				Regular (5-year)	No
W564_S278	W564	S278	358		6				Regular (5-year)	No
W565_W564	W565	W564	241		6				Regular (5-year)	No
W566_W565	W566	W565	156		6				Regular (5-year)	No
W567_W564	W567	W564	394		6				Regular (5-year)	No
W568_W570	W568	W570	367		6				Regular (5-year)	No
W569_W566	W569	W566	109		6				Regular (5-year)	No
W57_N13	W57	N13	164		6				Regular (5-year)	No
W570_W566	W570	W566	206		6				Regular (5-year)	No
W571_W570	W571	W570	173		6				Regular (5-year)	No
W572_W571	W572	W571	129		6				Regular (5-year)	No
W573_W568	W573	W568	173		6				Regular (5-year)	No
W574_W573	W574	W573	84		6				Regular (5-year)	No
W575_W576	W575	W576	246		6				Regular (5-year)	No
W576_W577	W576	W577	347		6				Regular (5-year)	No
W577_W583	W577	W583	300		6				Regular (5-year)	No
W578_W583	W578	W583	249		8				Regular (5-year)	No
W579_W578	W579	W578	250		8				Regular (5-year)	No
W58_W60	W58	W60	185		8				Regular (5-year)	No
W580_W579	W580	W579	285		6				Regular (5-year)	No
W581_W580	W581	W580	383		6				Regular (5-year)	No
W582_W581	W582	W581	181		6				Regular (5-year)	No
W583_W540	W583	W540	279		8				Regular (5-year)	No
W584_W602	W584	W602	182		6				Regular (5-year)	No
W585_W572	W585	W572	147		6				Regular (5-year)	No
W586_W567	W586	W567	401		6				Regular (5-year)	No
W587_S279	W587	S279	404		6				Regular (5-year)	No
W588_W584	W588	W584	201		6				Regular (5-year)	No
W589_W588	W589	W588	201		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W59_W57	W59	W57	159		8				Regular (5-year)	No
W590_Unk	W590	Unk	153		10				Regular (5-year)	No
W591_S265	W591	S265	262		6				Regular (5-year)	No
W592_W591	W592	W591	379		6				Regular (5-year)	No
W593_S267	W593	S267	334		6				Regular (5-year)	Yes
W594_W595	W594	W595	254		6				Regular (5-year)	No
W595_W596	W595	W596	293		6				Regular (5-year)	No
W596_W591	W596	W591	264		6				Regular (5-year)	No
W597_W430	W597	W430	394		6				Regular (5-year)	No
W598_W597	W598	W597	333		6				Regular (5-year)	No
W599_W598	W599	W598	30		6				Regular (5-year)	No
W6_W5	W6	W5	166		8				Regular (5-year)	No
W60_W59	W60	W59	70		8				Regular (5-year)	No
W600_W599	W600	W599	241		6				Regular (5-year)	No
W601_S112C	W601	S112C	250		6				Regular (5-year)	No
W602_W601	W602	W601	208		6				Regular (5-year)	No
W603_W450	W603	W450	328		8				Regular (5-year)	No
W604_S121	W604	S121	112		6				6-month	No
W605_S116	W605	S116	231		6				6-month	Yes
W606_S257	W606	S257	251		8				Regular (5-year)	Yes
W607_W608	W607	W608	133		10				Regular (5-year)	No
W608_S256	W608	S256	119		10				Regular (5-year)	No
W609_S255	W609	S255	171		10				Regular (5-year)	No
W61_W54	W61	W54	224		8				6-month	No
W610_W611	W610	W611	397		18				Regular (5-year)	No
W611_W603	W611	W603	110		18				Regular (5-year)	No
W612_W633	W612	W633	252		8				Regular (5-year)	No
W613_W629	W613	W629	212		8				Regular (5-year)	No
W614_W615	W614	W615	122		8				Regular (5-year)	No
W615_W616	W615	W616	78		8				Regular (5-year)	No
W616_W617	W616	W617	86		8				Regular (5-year)	No
W617_W618	W617	W618	220		8				Regular (5-year)	No
W618_W603	W618	W603	320		8				Regular (5-year)	No
W619_W756	W619	W756	383		6				Regular (5-year)	No
W62_W54	W62	W54	182		8				6-month	No
W620_W619	W620	W619	265		6				Regular (5-year)	No
W621_W622	W621	W622	193		6				Regular (5-year)	No
W622_W624	W622	W624	155		8				Regular (5-year)	No
W623_W622	W623	W622	130		6				Regular (5-year)	No
W624_W625	W624	W625	115		8				Regular (5-year)	No
W625_W764	W625	W764	141		8				Regular (5-year)	No
W626_W629	W626	W629	95		8				Regular (5-year)	No
W627_W626	W627	W626	246		8				Regular (5-year)	Yes
W628_W629	W628	W629	188		8				Regular (5-year)	Yes
W629_W630	W629	W630	209		8				Regular (5-year)	No
W63_W62	W63	W62	163		8				6-month	No
W630_W610	W630	W610	358		8				Regular (5-year)	No
W631_W630	W631	W630	261		8				Regular (5-year)	Yes
W632_W633	W632	W633	139		8				Regular (5-year)	No
W633_W636	W633	W636	210		8				Regular (5-year)	No
W635_W633	W635	W633	297		8				Regular (5-year)	Yes
W636_W638	W636	W638	209		8				Regular (5-year)	Yes
W637_W636	W637	W636	166		8				Regular (5-year)	Yes
W638_W453	W638	W453	208		8				Regular (5-year)	Yes
W64_W63	W64	W63	74		8				6-month	No
W640_W504	W640	W504	274		8				Regular (5-year)	No
W641_W504	W641	W504	288		18				Regular (5-year)	No
W642_W640	W642	W640	247		8				Regular (5-year)	No
W643_W641	W643	W641	299		18				Regular (5-year)	No
W644_W642	W644	W642	222		8				Regular (5-year)	No
W645_W644	W645	W644	106		6				Regular (5-year)	No
W646_W645	W646	W645	174		6				Regular (5-year)	No
W647_W648	W647	W648	192		6				Regular (5-year)	No
W648_W649	W648	W649	193		6				Regular (5-year)	No
W649_W650	W649	W650	86		6				Regular (5-year)	No
W650_W652	W650	W652	177		6				Regular (5-year)	No
W651_W643	W651	W643	272		18				Regular (5-year)	No
W652_W653	W652	W653	68		6				Regular (5-year)	No
W653_W651	W653	W651	82		18				Regular (5-year)	No
W655_W653	W655	W653	361		18				Regular (5-year)	No
W656_W657	W656	W657	246		18				Regular (5-year)	No
W657_W655	W657	W655	163		18				Regular (5-year)	No
W658_W659	W658	W659	235		8				Regular (5-year)	No
W659_W656	W659	W656	169		8				Regular (5-year)	No
W66_W65	W66	W65	77		8				4-Month Frequency	No
W660_W656	W660	W656	94		18				Regular (5-year)	No
W661_W660	W661	W660	325		18				Regular (5-year)	No
W662_W661	W662	W661	342		18				Regular (5-year)	No
W664_CO-544	W664	CO-544	45		8				Regular (5-year)	No
W665_W518	W665	W518	308		15				Regular (5-year)	Yes
W666_W665	W666	W665	453		15				Regular (5-year)	No
W667_W666	W667	W666	12		10				Regular (5-year)	No
W668_W669	W668	W669	326		6				4-Month Frequency	No
W669_N24A	W669	N24A	178		10				6-month	No
W67_Unk	W67	Unk	111		8				4-Month Frequency	No
W670_W675	W670	W675	233		8				Regular (5-year)	No
W671_W670	W671	W670	162		8				Regular (5-year)	No
W671_W682	W671	W682	273		8				Regular (5-year)	No
W672_W671	W672	W671	206		18				Regular (5-year)	No
W673_W672	W673	W672	205		18				Regular (5-year)	No
W674_W673	W674	W673	181		18				Regular (5-year)	No
W675_W676	W675	W676	193		8				Regular (5-year)	No
W676_W677	W676	W677	224		8				Regular (5-year)	No
W677_W678	W677	W678	41		8				Regular (5-year)	No
W678_W684	W678	W684	239		18				Regular (5-year)	No
W679_W678	W679	W678	40		8				Regular (5-year)	No
W68_Unk	W68	Unk	88		8				4-Month Frequency	No
W680_W679	W680	W679	95		8				Regular (5-year)	No
W681_W683	W681	W683	211		8				Regular (5-year)	No
W682_Unk	W682	Unk	14		8				Regular (5-year)	No
W683_W671	W683	W671	173		8				Regular (5-year)	No
W684_W766	W684	W766	283		18				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W685_S263	W685	S263	292		8				Regular (5-year)	No
W686_S263	W686	S263	293		8				Regular (5-year)	Yes
W687_S261	W687	S261	139		10				Regular (5-year)	No
W688_W687	W688	W687	163		8				Regular (5-year)	No
W689_S258	W689	S258	86		10				Regular (5-year)	Yes
W69_Unk	W69	Unk	41		8				6-month	No
W690_W689	W690	W689	250		8				Regular (5-year)	No
W691_S260	W691	S260	266		8				Regular (5-year)	No
W692_W693	W692	W693	384		8				Regular (5-year)	No
W693_W690	W693	W690	284		8				Regular (5-year)	No
W694_W693	W694	W693	137		8				Regular (5-year)	No
W695_W694	W695	W694	246		8				Regular (5-year)	No
W696_W702	W696	W702	280		8				Regular (5-year)	No
W697_W698	W697	W698	153		8				Regular (5-year)	No
W698_W699	W698	W699	164		8				Regular (5-year)	No
W699_W700	W699	W700	198		8				Regular (5-year)	No
W7_W6	W7	W6	111		8				Regular (5-year)	No
W70_Unk	W70	Unk	122		8				4-Month Frequency	No
W700_W701	W700	W701	305		8				Regular (5-year)	No
W701_W695	W701	W695	162		8				Regular (5-year)	No
W702_W697	W702	W697	353		8				Regular (5-year)	No
W703_W704	W703	W704	102		8				Regular (5-year)	No
W704_W705	W704	W705	140		8				Regular (5-year)	No
W705_W714	W705	W714	151		8				Regular (5-year)	No
W706_W707	W706	W707	145		8				Regular (5-year)	No
W707_W708	W707	W708	218		8				Regular (5-year)	No
W708_W709	W708	W709	157		8				Regular (5-year)	No
W709_W710	W709	W710	346		8				Regular (5-year)	No
W710_W695	W710	W695	324		8				Regular (5-year)	No
W711_W709	W711	W709	156		8				Regular (5-year)	No
W712_W711	W712	W711	246		8				Regular (5-year)	No
W713_W714	W713	W714	267		8				Regular (5-year)	No
W714_W716	W714	W716	324		8				Regular (5-year)	No
W716_W711	W716	W711	246		8				Regular (5-year)	No
W717_W716	W717	W716	156		8				Regular (5-year)	No
W718_W716	W718	W716	167		8				Regular (5-year)	No
W719_W718	W719	W718	334		8				Regular (5-year)	No
W72_Unk	W72	Unk	50		8				4-Month Frequency	No
W720_W719	W720	W719	250		8				Regular (5-year)	No
W721_W720	W721	W720	353		8				Regular (5-year)	No
W722_W720	W722	W720	292		8				Regular (5-year)	No
W723_W702	W723	W702	318		8				Regular (5-year)	No
W724_W721	W724	W721	155		8				Regular (5-year)	No
W725_W724	W725	W724	209		8				Regular (5-year)	No
W726_W725	W726	W725	200		8				Regular (5-year)	No
W727_W726	W727	W726	93		8				Regular (5-year)	No
W728_W727	W728	W727	119		8				Regular (5-year)	No
W729_W722	W729	W722	296		8				Regular (5-year)	No
W73_Unk	W73	Unk	21		8				4-Month Frequency	No
W730_W722	W730	W722	101		8				Regular (5-year)	No
W731_W730	W731	W730	157		8				Regular (5-year)	No
W732_W731	W732	W731	211		8				Regular (5-year)	No
W733_W732	W733	W732	76		8				Regular (5-year)	No
W734_W733	W734	W733	171		8				Regular (5-year)	No
W735_W732	W735	W732	263		8				Regular (5-year)	No
W736_W735	W736	W735	112		8				Regular (5-year)	No
W737_Unk	W737	Unk	11		6				Regular (5-year)	No
W738_Unk	W738	Unk	10		4				Regular (5-year)	No
W739_W740	W739	W740	246		12				Regular (5-year)	No
W74_W75	W74	W75	221		21				Regular (5-year)	Yes
W740_W741	W740	W741	224		12				Regular (5-year)	No
W741_W742	W741	W742	230		12				Regular (5-year)	No
W742_W743	W742	W743	82		12				Regular (5-year)	No
W743_CO-647	W743	CO-647	136		6				Regular (5-year)	No
W743_W744	W743	W744	511		12				4-Month Frequency	No
W744_W745	W744	W745	269		12				Regular (5-year)	No
W745_Unk	W745	Unk	149		12				Regular (5-year)	No
W746_Unk	W746	Unk	25		12				Regular (5-year)	No
W747_Unk	W747	Unk	104		18				Regular (5-year)	No
W748_N30A	W748	N30A	354		6				Regular (5-year)	No
W749_Unk	W749	Unk	125		6				Regular (5-year)	No
W75_S332	W75	S332	173		21				Regular (5-year)	Yes
W751_S242	W751	S242	115		6				Regular (5-year)	No
W752_W751	W752	W751	306		6				Regular (5-year)	No
W754_W753	W754	W753	188		6				Regular (5-year)	No
W755_W754	W755	W754	287		6				Regular (5-year)	No
W756_S239B	W756	S239B	251		12				Regular (5-year)	No
W757_W756	W757	W756	105		12				Regular (5-year)	No
W758_W757	W758	W757	136		12				Regular (5-year)	No
W759_W758	W759	W758	251		12				Regular (5-year)	No
W76_S328	W76	S328	225		8				Regular (5-year)	No
W760_W759	W760	W759	176		12				Regular (5-year)	No
W761_W625	W761	W625	72		6				Regular (5-year)	No
W762_W759	W762	W759	139		6				Regular (5-year)	No
W763_W762	W763	W762	92		6				Regular (5-year)	No
W764_W758	W764	W758	213		8				Regular (5-year)	No
W765_W623	W765	W623	93		6				Regular (5-year)	No
W766_W662	W766	W662	317		18				Regular (5-year)	Yes
W767_W766	W767	W766	57		8				Regular (5-year)	Yes
W768_W767	W768	W767	188		8				Regular (5-year)	Yes
W769_W684	W769	W684	175		8				Regular (5-year)	Yes
W77_S329	W77	S329	98		8				Regular (5-year)	No
W770_W768	W770	W768	271		8				Regular (5-year)	Yes
W771_W680	W771	W680	171		8				Regular (5-year)	No
W772_W771	W772	W771	159		8				Regular (5-year)	No
W773_CO-675	W773	CO-675	55		8				Regular (5-year)	No
W773_W772	W773	W772	80		8				Regular (5-year)	No
W774_W775	W774	W775	242		8				Regular (5-year)	No
W775_W776	W775	W776	205		8				Regular (5-year)	No
W776_W683	W776	W683	181		8				Regular (5-year)	No
W777_W778	W777	W778	107		6				Regular (5-year)	Yes
W778_W779	W778	W779	286		6				Regular (5-year)	Yes

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W779_W785	W779	W785	70		6				Regular (5-year)	Yes
W78_S323	W78	S323	266		8				Regular (5-year)	No
W780_W783	W780	W783	175		6				Regular (5-year)	Yes
W781_W760	W781	W760	221		12				Regular (5-year)	No
W782_W781	W782	W781	233		6				Regular (5-year)	No
W783_W781	W783	W781	237		12				Regular (5-year)	Yes
W784_W783	W784	W783	55		6				Regular (5-year)	Yes
W785_W783	W785	W783	55		12				Regular (5-year)	Yes
W786_W787	W786	W787	238		6				Regular (5-year)	No
W787_W788	W787	W788	262		6				Regular (5-year)	No
W788_W784	W788	W784	148		6				Regular (5-year)	No
W789_W786	W789	W786	176		6				Regular (5-year)	No
W79_Unk	W79	Unk	150		8				Regular (5-year)	No
W790_W791	W790	W791	301		6				Regular (5-year)	Yes
W791_W796	W791	W796	266		6				Regular (5-year)	Yes
W792_W791	W792	W791	284		6				Regular (5-year)	Yes
W793_W792	W793	W792	299		6				Regular (5-year)	Yes
W794_W793	W794	W793	140		6				Regular (5-year)	No
W795_W794	W795	W794	107		6				Regular (5-year)	No
W796_W797	W796	W797	109		12				Regular (5-year)	Yes
W797_W785	W797	W785	134		12				Regular (5-year)	Yes
W798_W796	W798	W796	290		12				Regular (5-year)	Yes
W799_W798	W799	W798	127		12				Regular (5-year)	Yes
W8_W7	W8	W7	68		8				Regular (5-year)	No
W80_W109	W80	W109	138		8				4-Month Frequency	No
W800_W799	W800	W799	106		12				Regular (5-year)	Yes
W801_W800	W801	W800	119		12				Regular (5-year)	Yes
W803_W796	W803	W796	385		8				Regular (5-year)	Yes
W804_W803	W804	W803	247		8				Regular (5-year)	No
W805_W804	W805	W804	28		8				Regular (5-year)	No
W806_W805	W806	W805	296		8				Regular (5-year)	No
W807_W806	W807	W806	296		8				Regular (5-year)	No
W808_W801	W808	W801	180		6				Regular (5-year)	Yes
W809_W808	W809	W808	296		6				Regular (5-year)	Yes
W81_W71	W81	W71	275		8				4-Month Frequency	No
W810_W804	W810	W804	261		8				Regular (5-year)	No
W811_W810	W811	W810	72		6				Regular (5-year)	No
W812_W810	W812	W810	179		6				Regular (5-year)	No
W813_W801	W813	W801	81		12				Regular (5-year)	Yes
W814_W269	W814	W269	286		8				Regular (5-year)	Yes
W815_W814	W815	W814	109		8				Regular (5-year)	Yes
W816_W815	W816	W815	206		8				Regular (5-year)	Yes
W817_W272	W817	W272	252		8				Regular (5-year)	No
W818_W822	W818	W822	271		10				Regular (5-year)	No
W819_W818	W819	W818	238		8				Regular (5-year)	Yes
W82_W46	W82	W46	68		8				4-Month Frequency	No
W820_W291	W820	W291	244		8				Regular (5-year)	No
W821_W820	W821	W820	294		10				Regular (5-year)	No
W822_W821	W822	W821	293		10				Regular (5-year)	No
W823_W819	W823	W819	203		8				Regular (5-year)	Yes
W824_W825	W824	W825	297		8				Regular (5-year)	No
W825_W823	W825	W823	192		8				Regular (5-year)	No
W826_S183	W826	S183	430		33				Regular (5-year)	Yes
W827_S179	W827	S179	294		24				Regular (5-year)	No
W828_N1C	W828	N1C	300		24				Regular (5-year)	No
W829_W827	W829	W827	223		24				Regular (5-year)	No
W83_W82	W83	W82	67		8				4-Month Frequency	No
W830_W829	W830	W829	111		24				Regular (5-year)	No
W831_W830	W831	W830	127		8				Regular (5-year)	No
W832_W831	W832	W831	222		8				Regular (5-year)	No
W833_W832	W833	W832	241		8				Regular (5-year)	No
W834_W831	W834	W831	263		8				Regular (5-year)	No
W835_W830	W835	W830	132		18				Regular (5-year)	No
W836_W835	W836	W835	223		15				Regular (5-year)	No
W837_W836	W837	W836	331		15				Regular (5-year)	No
W838_W835	W838	W835	221		8				Regular (5-year)	No
W839_W838	W839	W838	82		8				Regular (5-year)	No
W84_W150	W84	W150	312		6				Regular (5-year)	No
W840_W839	W840	W839	226		8				Regular (5-year)	No
W841_W838	W841	W838	218		8				Regular (5-year)	No
W842_W840	W842	W840	267		8				Regular (5-year)	No
W843_W839	W843	W839	232		8				Regular (5-year)	No
W844_W841	W844	W841	217		8				Regular (5-year)	No
W845_W844	W845	W844	86		8				Regular (5-year)	No
W846_W845	W846	W845	251		8				Regular (5-year)	No
W847_W845	W847	W845	217		8				Regular (5-year)	No
W848_W847	W848	W847	120		8				Regular (5-year)	No
W849_W848	W849	W848	156		8				Regular (5-year)	No
W85_W84	W85	W84	257		6				Regular (5-year)	No
W850_CO-703	W850	CO-703	133		8				Regular (5-year)	No
W851_W850	W851	W850	238		8				Regular (5-year)	No
W852_W851	W852	W851	25		8				Regular (5-year)	No
W853_W833	W853	W833	275		8				Regular (5-year)	No
W854_W834	W854	W834	264		8				Regular (5-year)	No
W855_W854	W855	W854	249		8				Regular (5-year)	No
W856_W853	W856	W853	247		8				Regular (5-year)	No
W857_W855	W857	W855	210		8				Regular (5-year)	No
W858_W856	W858	W856	204		8				Regular (5-year)	No
W859_W837	W859	W837	233		6				Regular (5-year)	No
W859_W837	W859	W837	222		15				Regular (5-year)	No
W86_W85	W86	W85	518		6				Regular (5-year)	No
W860_W859	W860	W859	71		15				Regular (5-year)	No
W861_W860	W861	W860	107		15				Regular (5-year)	No
W862_W843	W862	W843	264		8				Regular (5-year)	No
W863_W862	W863	W862	230		8				Regular (5-year)	No
W864_W842	W864	W842	267		8				Regular (5-year)	No
W865_W846	W865	W846	278		8				Regular (5-year)	No
W866_W865	W866	W865	181		8				Regular (5-year)	No
W867_W849	W867	W849	158		8				Regular (5-year)	No
W868_W867	W868	W867	136		8				Regular (5-year)	No
W869_W868	W869	W868	114		8				Regular (5-year)	No
W87_W86	W87	W86	304		6				Regular (5-year)	No

Appendix D: GIS Collection System Asset Inventory

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification[a]	200 ft. Proximity to Named Windsor Surface Water[b]
W870_W869	W870	W869	83		8				Regular (5-year)	No
W871_W852	W871	W852	267		8				Regular (5-year)	No
W872_W871	W872	W871	242		8				Regular (5-year)	No
W873_W870	W873	W870	106		8				Regular (5-year)	No
W874_W873	W874	W873	143		8				Regular (5-year)	No
W875_W874	W875	W874	82		8				Regular (5-year)	No
W876_W875	W876	W875	182		8				Regular (5-year)	No
W877_W873	W877	W873	339		8				Regular (5-year)	No
W878_W876	W878	W876	245		8				Regular (5-year)	No
W88_W84	W88	W84	237		6				Regular (5-year)	No
W880_W878	W880	W878	196		8				Regular (5-year)	No
W881_W880	W881	W880	68		8				Regular (5-year)	No
W882_W877	W882	W877	229		8				Regular (5-year)	No
W883_W882	W883	W882	301		8				Regular (5-year)	No
W884_W885	W884	W885	127		8				Regular (5-year)	No
W885_W887	W885	W887	283		8				Regular (5-year)	No
W886_W883	W886	W883	287		8				Regular (5-year)	No
W887_W886	W887	W886	254		8				Regular (5-year)	No
W888_W861	W888	W861	174		15				Regular (5-year)	No
W889_W890	W889	W890	296		8				Regular (5-year)	No
W89_W88	W89	W88	47		6				Regular (5-year)	No
W890_W891	W890	W891	315		8				Regular (5-year)	No
W891_W892	W891	W892	276		8				Regular (5-year)	No
W892_W872	W892	W872	514		8				Regular (5-year)	No
W893_W888	W893	W888	166		15				Regular (5-year)	No
W894_W893	W894	W893	250		8				Regular (5-year)	No
W895_W894	W895	W894	267		8				Regular (5-year)	No
W896_W893	W896	W893	286		15				Regular (5-year)	No
W897_W896	W897	W896	216		15				Regular (5-year)	No
W898_Unk	W898	Unk	116		8				Regular (5-year)	No
W899_W897	W899	W897	184		8				Regular (5-year)	No
W9_W10	W9	W10	265		8				Regular (5-year)	No
W90_Unk	W90	Unk	130		6				Regular (5-year)	No
W900_W901	W900	W901	191		8				Regular (5-year)	No
W901_W897	W901	W897	253		15				Regular (5-year)	No
W902_Unk	W902	Unk	131		8				Regular (5-year)	No
W903_W904	W903	W904	255		8				Regular (5-year)	No
W904_W905	W904	W905	258		8				Regular (5-year)	No
W905_W902	W905	W902	246		8				Regular (5-year)	No
W907_CO-730	W907	CO-730	419		8				Regular (5-year)	No
W908_W907	W908	W907	192		8				Regular (5-year)	No
W909_W908	W909	W908	86		8				Regular (5-year)	No
W91_W90	W91	W90	143		6				Regular (5-year)	No
W910_W909	W910	W909	59		8				Regular (5-year)	No
W911_W912	W911	W912	203		8				Regular (5-year)	No
W912_W913	W912	W913	81		8				Regular (5-year)	No
W913_W887	W913	W887	186		8				Regular (5-year)	No
W914_W912	W914	W912	243		8				Regular (5-year)	No
W915_W886	W915	W886	254		8				Regular (5-year)	No
W916_W917	W916	W917	159		8				Regular (5-year)	No
W917_W918	W917	W918	198		8				Regular (5-year)	No
W918_W908	W918	W908	254		8				Regular (5-year)	No
W919_W920	W919	W920	124		8				Regular (5-year)	No
W92_W90	W92	W90	193		6				Regular (5-year)	No
W920_W915	W920	W915	329		8				Regular (5-year)	No
W921_W918	W921	W918	239		8				Regular (5-year)	Yes
W922_W923	W922	W923	208		8				Regular (5-year)	No
W923_W924	W923	W924	225		8				Regular (5-year)	Yes
W924_W925	W924	W925	281		8				Regular (5-year)	Yes
W925_W921	W925	W921	56		8				Regular (5-year)	Yes
W926_Unk	W926	Unk	54		4				Regular (5-year)	No
W927_Unk	W927	Unk	20		6				Regular (5-year)	No
W928_Unk	W928	Unk	67		4				Regular (5-year)	No
W929_Unk	W929	Unk	80		8				Regular (5-year)	Yes
W929_Unk	W929	Unk	102		8				Regular (5-year)	Yes
W93_W91	W93	W91	265		6				Regular (5-year)	No
W94_W93	W94	W93	333		6				Regular (5-year)	No
W95_W85	W95	W85	208		6				Regular (5-year)	No
W96_Unk	W96	Unk	14		6				Regular (5-year)	No
W97_S53E	W97	S53E	121		6				Regular (5-year)	No
W98_S53E	W98	S53E	183		6				Regular (5-year)	No
W99_S53E	W99	S53E	300		10				Regular (5-year)	No
		Total Length:	**490,398**	**feet**						
		Total Length:	**92.88**	**miles**						

[a] This column indicates the cleaning frequency of the gravity main as identified by the Town.

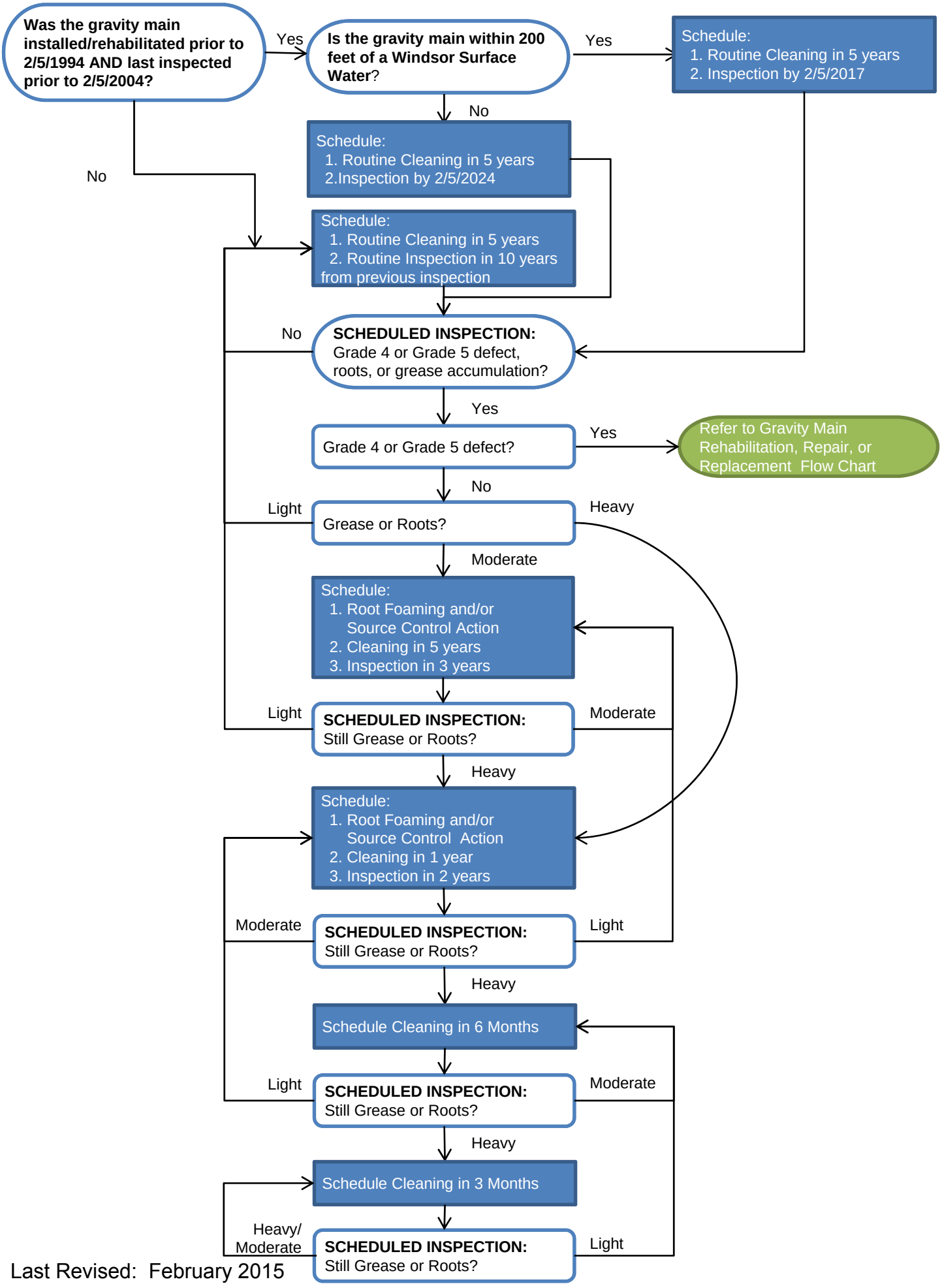
[b] This column indicates whether the gravity main is within 200 feet of a creek as indicated by GIS analysis.

APPENDIX E

Town of Windsor Inspection, Cleaning, Rehabilitation, Repair, and Repair Flow Chart

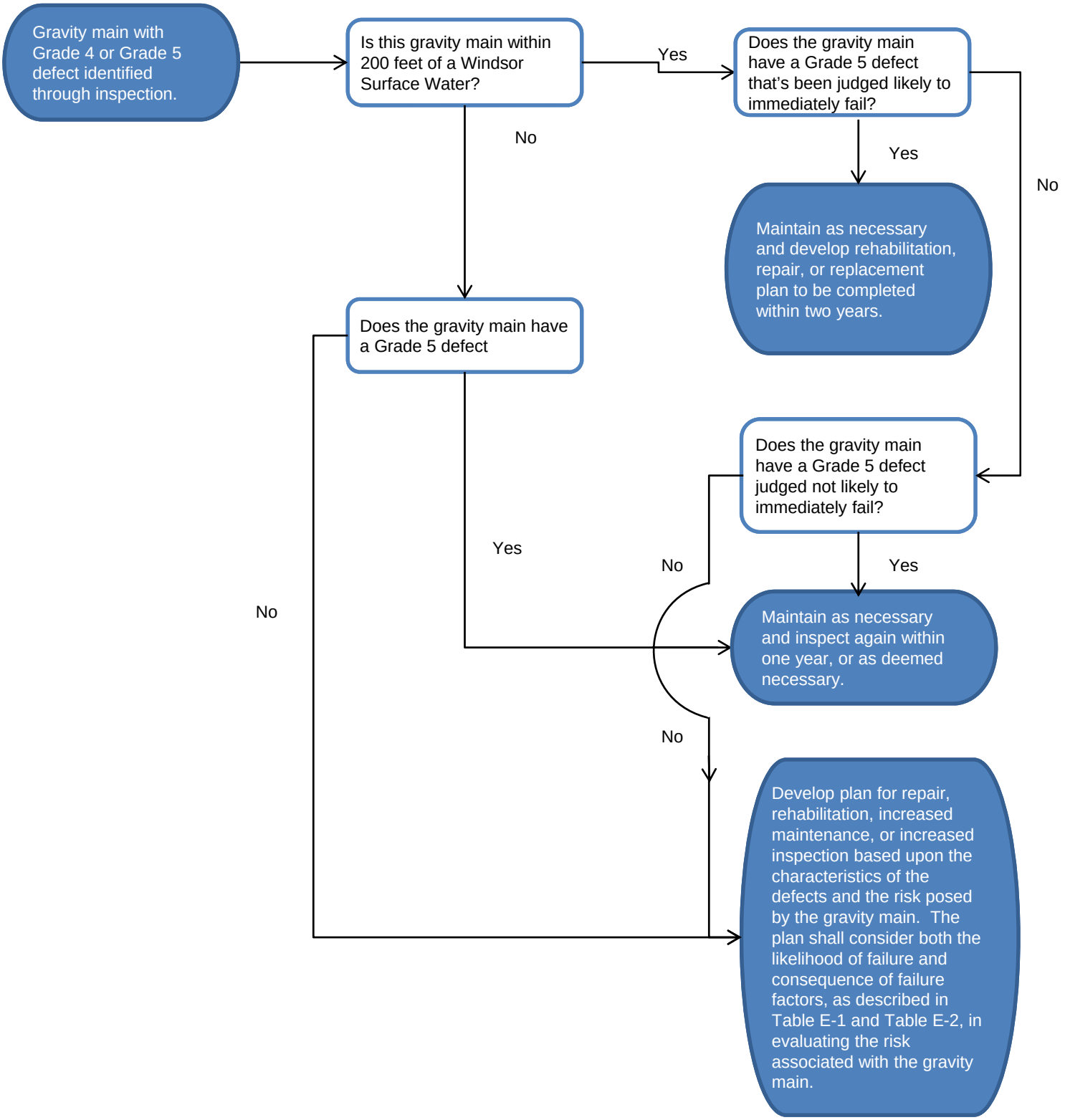
Collection System Risk Assessment Factors

Town of Windsor Gravity Main Inspection and Cleaning Prioritization Flow Chart



Last Revised: February 2015

Town of Windsor Gravity Main Rehabilitation, Repair, and Replacement Flow Chart



Last Revised: February 2015

Table E-1. Likelihood of Failure Criteria

Failure Mode	Description	Criteria	Data Source
Structural Failure	Pipe cracks or breaks can progress to pipeline collapse. Structural defects increases with time as the pipes approach the end of their useful lives.	Remaining useful life	Installation date and pipe material: AutoCAD Map Annotation or Improvement Plan Data
Washout	The closer the pipeline and manholes are to open-channel waterways, the more likely the occurrence of pipe movement and damage from soil displacement due to scour and/or flooding damage.	Located in floodplain or floodway	GIS or other locational data
Maintenance Failure	The probability of maintenance-related blockages and SSOs occurring increases as root intrusion, grease accumulation, and sediment accumulation occurs.	Located within a Town-defined high frequency maintenance cycle or hotspot zone	Hotspot map or database
Capacity-Related SSOs	The likelihood of a capacity-related SSO increases when projected flows exceed full-pipe gravity flow capacity.	Hydraulic deficiency	I&I Study; Master Plan; Collection System Plan

Table E-2. Consequence of Failure Criteria

Category	Description	Criteria/Factor	**Data Source**
Regulatory Compliance	The State Water Resources Control Board requires the Town to prevent SSOs and to mitigate SSOs when they occur. The higher the volume of the spill, the more difficult spill mitigation and compliance requirements, and the higher fines become.	Potential volume of SSO (assumed to be proportional to pipe diameter)	Pipe Diameter (GIS or Improvement Plans)
Environmental/ Public Health	An SSO will have an increased negative impact on public health and the environment as the proximity to environmentally sensitive areas and public facilities (*e.g.,* schools and parks) increases.	Proximity to environmentally sensitive areas (waterways), public facilities, senior centers, as applicable	GIS Analysis
Community Disruption	Disruption to the community increases with proximity to arterial streets and highways.	Proximity to arterial streets and highways	GIS Analysis
	An SSO will have an increased negative impact on economic development as the proximity to commercial areas.	Proximity to commercial area / downtown area	GIS Analysis

APPENDIX F

Sanitary Sewer Pump Station Maintenance Logs and Schedules

Vintage Greens Lift Station
Weekly Maintenace Check List

Operator: D Martinez Date: 2-27-14

	Ok	Defective	Notes:
Perimeter & Fence Structure:	✓		
Building & other Structures:	✓		
Wet Well Check:	✓		
Float Check:	✓		
Pump #1 Read:	5026.30		
Pump #2 Read:	4798.72		Pump # 3 = 105.49
Generator Read:	138.6		
Oil Level in Pump #1:	✓		
Oil Level in Pump #2:	✓		
Check Air Relief Valves:	✓		
Check Pumps for Leaks:	✓		
Check #1 Motor/Belts:	✓		
Check #2 Motor/Belts:	✓		
Check & Exercise 3Way Plug:	✓		
Fluid Levels for Generator:	✓		
Lock Out Tag Out:	✓		
Fire Extingusher Check:	✓		
PPE/ First Aid:	✓		

Pump #1
Suction: 26
Discharge: 41
Temp: 70

Pump #2
Suction: 28
Discharge: 40
Temp: 69

LPG Level: 33

Monthly Generator Test: Yes **Run Time:** 1 Hr **Site Maint.** _____

By-Pass Pump Around: _____

Greens Lift Station
Weekly Maintenace Check List

Operator: J Barnes **Date:** 2-27-14

	Ok	Defective	Notes:
Perimeter & Fence Structure:	✓		
Building & other Structures:	✓		
Wet Well Check:	✓		grease on wall
Float Check:	✓		cleaned grease off float
Pump #1 Read: 294.02	✓		
Pump #2 Read: 1139.4	✓		
Generator Read: 250.5	✓		
Check Air Relief Vlaves:	✓		
Air Compressor Check.	✓		
Oil Level in Pump #1:	✓		
Oil Level in Pump #2:	✓		
Check Pumps for Leaks:	✓		
Check #1 Motor/Belts:	✓		
Check #2 Motor/Belts:	✓		
Check & Exercise 3Way Plug:	✓		
Fluid Levels for Generator:	✓		
Lock Out Tag Out:	✓		
Fire Extingusher Check:	✓		
PPE/ First Aid:	✓		

Pump #1
Suction: 21
Discharge: 23
Temp: 71F

Pump #2
Suction: 22
Discharge: 21
Temp: 71F

LPG Level: 51

Air Pump Switch Over:

Yes:	No:
✓	

Monthly Generator Test. ✓ **Run Time:** ½ hr. **Site Maint.:** ✓

By-Pass Pump Around:

1-16-14

RM — Weekly maint & site inspection.

1-21-14

RR - SITE INSPECTIONS - READS.
Pump #1 OFF - PUT BACK IN AUTO AFTER PUTTING SWITCH IN HAND.

1.23.14

JI/DP - Reads + checks
- weekly inspections

2/3/14

JI - Reads + checks
Ran generator

2-6-2014

RM — Weekly maint & site inspections all is good gas is about 33.

2-10-14

RM — Reads & site inspections

2-13-14

JB — -Weekly Maintenance & site inspections & LPG = 35

12-10-13

DP JI RR Rm — By Pass Pump around Training

12-11-13

Rm — Weekly maint & Site inspection

12-16-13

DP — Painted Green Tire Stop for 3" Pump Took Trash out Installed new Hose at N.W. Corner of Building

12-18-13

JI - Removed 3 way plug valve that was unoperational
- Installed 3 way plug valve.
JI/DP - Reinstalled roof bolts

12.19.13

JI - Weekly maint / reads + checks

12.23.13

RR - SITE INSPECTION - READS.

12.26.13

RR - WEEKLY MAINT, READS, & SITE INSPECTION

APPENDIX G

Collection System Hot Spot Map and Gravity Main List

Notes:

1. Background image courtesy of ESRI.
2. Gravity main data and cleaning frequency provided by Town of Windsor.
3. Stream location taken from publicly-available USGS data.

Hwy 101
Arata Ln
Chalk Hill Rd
WRIGHT CREEK
EAST WINDSOR CREEK
WINDSOR CREEK
STARR CREEK
Hembree Ln
Starr Rd
Reiman Ln
Conde Ln
Pleasant Ave
Mitchell Ln
Hwy 101
Shiloh Rd
POOL CREEK
PRUITT CREEK
MARK WEST CREEK

LEGEND

- Named Windsor Surface Water
- Other Surface Water
- Pool Creek

Hotspot Maintenance Gravity Mains as of Dec. 2014

- Maintenance Every Four Months
- Maintenance Every Six Months
- Maintenance Every Twelve Months
- Regular Maintenance Schedule (Every Five Years)

N

0 1,000 2,000

Scale in Feet

FIGURE G-1

Town of Windsor
2015 SSMP Update

HOTSPOT MAINTENANCE GRAVITY MAINS

TOWN OF WINDSOR

WEST YOST ASSOCIATES
Consulting Engineers

Last Saved: 1/26/2015 2:29:21 PM iwells. F:\Current\06-13-06 SSMP\GIS\Figures\G-1 Hotspots.mxd

Appendix G: Gravity Main Hot Spot Cleaning List

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification
CO-20_Unk	CO-20	Unk	16		6				4-Month Frequency
CO-21_Unk	CO-21	Unk	14		6				4-Month Frequency
CO-22_Unk	CO-22	Unk	24		6				4-Month Frequency
CO-23_W18	CO-23	W18	107		6				4-Month Frequency
CO-231_S19A	CO-231	S19A	264		6				4-Month Frequency
CO-24_W21	CO-24	W21	95		6				4-Month Frequency
CO-25_W23	CO-25	W23	95		6				4-Month Frequency
CO-26_N25	CO-26	N25	207		10				4-Month Frequency
CO-261_S20B	CO-261	S20B	291		6				4-Month Frequency
CO-262_S19B	CO-262	S19B	309		6				4-Month Frequency
CO-263_S19E	CO-263	S19E	298		6				4-Month Frequency
CO-264_S19D	CO-264	S19D	369		6				4-Month Frequency
CO-265_S19F	CO-265	S19F	353		6				4-Month Frequency
CO-269_Unk	CO-269	Unk	16		6				4-Month Frequency
CO-371_S203	CO-371	S203	153		6				4-Month Frequency
CO-372_S203D	CO-372	S203D	55		6				4-Month Frequency
CO-39_W81	CO-39	W81	199		8				4-Month Frequency
CO-40_W81	CO-40	W81	111		8				4-Month Frequency
CO-409_Unk	CO-409	Unk	63		6				4-Month Frequency
CO-41_W73	CO-41	W73	91		8				4-Month Frequency
CO-420_N303	CO-420	N303	58		8				4-Month Frequency
CO-421_N7D	CO-421	N7D	143		6				4-Month Frequency
CO-422_W507	CO-422	W507	301		6				4-Month Frequency
CO-423_W506	CO-423	W506	152		6				4-Month Frequency
CO-550_N8C	CO-550	N8C	292		6				4-Month Frequency
CO-557_N9D	CO-557	N9D	243		6				4-Month Frequency
CO-558_N22Q	CO-558	N22Q	180		6				4-Month Frequency
CO-576_N24B	CO-576	N24B	242		6				4-Month Frequency
CO-577_N24B	CO-577	N24B	157		6				4-Month Frequency
CO-87_S43	CO-87	S43	392		6				4-Month Frequency
N24B_N24A	N24B	N24A	202		6				4-Month Frequency
N300_W503	N300	W503	58		8				4-Month Frequency
N301_N300	N301	N300	73		8				4-Month Frequency
N302_N301	N302	N301	121		8				4-Month Frequency
N303_N302	N303	N302	170		8				4-Month Frequency
N305_N302	N305	N302	153		8				4-Month Frequency
N7_Unk	N7	Unk	40		10				4-Month Frequency
N7C_W503	N7C	W503	271		8				4-Month Frequency
N7D_N7C	N7D	N7C	307		8				4-Month Frequency
N7E_N7D	N7E	N7D	300		8				4-Month Frequency
N8_N7C	N8	N7C	117		6				4-Month Frequency
N8A_N8	N8A	N8	119		8				4-Month Frequency
N8B_N8A	N8B	N8A	345		6				4-Month Frequency
N8C_N8B	N8C	N8B	347		6				4-Month Frequency
N9_Unk	N9	Unk	320		8				4-Month Frequency
N9D_N9C	N9D	N9C	222		8				4-Month Frequency
N9E_N9D	N9E	N9D	107		6				4-Month Frequency
S12_S10	S12	S10	893		8				4-Month Frequency
S12B_W307	S12B	W307	198		6				4-Month Frequency
S19A_S11	S19A	S11	203		12				4-Month Frequency
S19B_S19E	S19B	S19E	60		12				4-Month Frequency
S19D_W337	S19D	W337	219		12				4-Month Frequency
S19E_S19D	S19E	S19D	79		12				4-Month Frequency
S20_S19B	S20	S19B	56		12				4-Month Frequency
S203_Unk	S203	Unk	87		6				4-Month Frequency
S203A_Unk	S203A	Unk	119		6				4-Month Frequency
S203B_S203A	S203B	S203A	309		6				4-Month Frequency
S203C_S203B	S203C	S203B	165		6				4-Month Frequency
S203D_S203C	S203D	S203C	197		6				4-Month Frequency
S203E_Unk	S203E	Unk	62		6				4-Month Frequency
S203F_S203E	S203F	S203E	96		6				4-Month Frequency
S203G_Unk	S203G	Unk	107		6				4-Month Frequency
S203H_S203G	S203H	S203G	158		6				4-Month Frequency
S20A_S20B	S20A	S20B	185		12				4-Month Frequency
S21_S20A	S21	S20A	280		12				4-Month Frequency
S25C_S25B	S25C	S25B	303		6				4-Month Frequency
S32_S31	S32	S31	538		8				4-Month Frequency
S33_S32	S33	S32	307		6				4-Month Frequency
S43A_S43	S43A	S43	211		12				4-Month Frequency
S62_S43	S62	S43	255		6				4-Month Frequency
S62A_W137	S62A	W137	162		6				4-Month Frequency
Unk_N7	Unk	N7	56		10				4-Month Frequency
Unk_N8A	Unk	N8A	112		8				4-Month Frequency
Unk_S19A	Unk	S19A	92		12				4-Month Frequency
Unk_S202	Unk	S202	93		6				4-Month Frequency
Unk_S203F	Unk	S203F	14		6				4-Month Frequency
Unk_S203H	Unk	S203H	264		6				4-Month Frequency
Unk_S25	Unk	S25	135		10				4-Month Frequency
Unk_Unk	Unk	Unk	215		6				4-Month Frequency
Unk_Unk	Unk	Unk	75		8				4-Month Frequency
Unk_Unk	Unk	Unk	53		8				4-Month Frequency
Unk_Unk	Unk	Unk	61		6				4-Month Frequency
Unk_Unk	Unk	Unk	66		6				4-Month Frequency
Unk_W17	Unk	W17	19		6				4-Month Frequency
Unk_W18	Unk	W18	16		6				4-Month Frequency
Unk_W20	Unk	W20	468		6				4-Month Frequency
Unk_W339	Unk	W339	86		6				4-Month Frequency
Unk_W439	Unk	W439	12		6				4-Month Frequency
Unk_W47	Unk	W47	160		8				4-Month Frequency
Unk_W498	Unk	W498	145		6				4-Month Frequency
Unk_W498	Unk	W498	100		10				4-Month Frequency

Appendix G: Gravity Main Hot Spot Cleaning List

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification
Unk_W83	Unk	W83	66		8				4-Month Frequency
W109_W110	W109	W110	155		8				4-Month Frequency
W137_S62	W137	S62	122		6				4-Month Frequency
W17_W16	W17	W16	111		6				4-Month Frequency
W18_W17	W18	W17	252		6				4-Month Frequency
W21_W22	W21	W22	365		6				4-Month Frequency
W22_Unk	W22	Unk	289		6				4-Month Frequency
W23_Unk	W23	Unk	108		6				4-Month Frequency
W304_W305	W304	W305	392		24				4-Month Frequency
W306_S12	W306	S12	167		6				4-Month Frequency
W307_W306	W307	W306	66		6				4-Month Frequency
W337_Unk	W337	Unk	97		12				4-Month Frequency
W338_S12B	W338	S12B	246		6				4-Month Frequency
W339_W338	W339	W338	119		6				4-Month Frequency
W347_Unk	W347	Unk	211		10				4-Month Frequency
W37_W80	W37	W80	207		6				4-Month Frequency
W39_W37	W39	W37	207		8				4-Month Frequency
W40_W39	W40	W39	239		8				4-Month Frequency
W41_W40	W41	W40	219		8				4-Month Frequency
W42_W41	W42	W41	215		8				4-Month Frequency
W439_Unk	W439	Unk	18		6				4-Month Frequency
W44_W43	W44	W43	102		8				4-Month Frequency
W45_W48	W45	W48	134		8				4-Month Frequency
W46_W45	W46	W45	213		8				4-Month Frequency
W47_W46	W47	W46	98		8				4-Month Frequency
W48_W44	W48	W44	149		8				4-Month Frequency
W487_N6	W487	N6	224		10				4-Month Frequency
W49_W42	W49	W42	77		8				4-Month Frequency
W494_W487	W494	W487	153		10				4-Month Frequency
W498_W494	W498	W494	199		10				4-Month Frequency
W500_W499	W500	W499	67		6				4-Month Frequency
W501_W500	W501	W500	84		6				4-Month Frequency
W502_W501	W502	W501	163		6				4-Month Frequency
W503_Unk	W503	Unk	284		8				4-Month Frequency
W505_N7E	W505	N7E	88		6				4-Month Frequency
W506_W505	W506	W505	62		6				4-Month Frequency
W507_W505	W507	W505	45		6				4-Month Frequency
W66_W65	W66	W65	77		8				4-Month Frequency
W668_W669	W668	W669	326		6				4-Month Frequency
W67_Unk	W67	Unk	111		8				4-Month Frequency
W68_Unk	W68	Unk	88		8				4-Month Frequency
W70_Unk	W70	Unk	122		8				4-Month Frequency
W72_Unk	W72	Unk	50		8				4-Month Frequency
W73_Unk	W73	Unk	21		8				4-Month Frequency
W743_CO-647	W743	CO-647	136		6				4-Month Frequency
W80_W109	W80	W109	138		8				4-Month Frequency
W81_W71	W81	W71	275		8				4-Month Frequency
W82_W46	W82	W46	68		8				4-Month Frequency
W83_W82	W83	W82	67		8				4-Month Frequency
CO-321_W471	CO-321	W471	266		6				6-Month Frequency
CO-392_W471	CO-392	W471	123		6				6-Month Frequency
CO-67_S56B	CO-67	S56B	355		6				6-Month Frequency
CO-68_Unk	CO-68	Unk	266		6				6-Month Frequency
N18_N15	N18	N15	253		6				6-Month Frequency
N19_N18	N19	N18	291		6				6-Month Frequency
S45A_S45	S45A	S45	104		6				6-Month Frequency
S56A_S45	S56A	S45	588		6				6-Month Frequency
S56B_S56A	S56B	S56A	295		6				6-Month Frequency
Unk_S45A	Unk	S45A	207		6				6-Month Frequency
W286_S65C	W286	S65C	147		6				6-Month Frequency
W471_N19	W471	N19	176		6				6-Month Frequency
CO-363_S98B	CO-363	S98B	179		6				12-Month Frequency
CO-364_S96B	CO-364	S96B	225		6				12-Month Frequency
CO-497_S112B	CO-497	S112B	18		6				12-Month Frequency
CO-572_N57	CO-572	N57	183		6				12-Month Frequency
CO-573_N55	CO-573	N55	370		6				12-Month Frequency
CO-581_N50F	CO-581	N50F	94		6				12-Month Frequency
CO-582_N50H	CO-582	N50H	136		6				12-Month Frequency
CO-583_N50H	CO-583	N50H	170		6				12-Month Frequency
CO-584_N53C	CO-584	N53C	71		6				12-Month Frequency
CO-585_N58	CO-585	N58	417		6				12-Month Frequency
CO-586_N54	CO-586	N54	412		6				12-Month Frequency
CO-587_N53A	CO-587	N53A	121		6				12-Month Frequency
N50B_N50A	N50B	N50A	307		6				12-Month Frequency
N50C_N50B	N50C	N50B	253		6				12-Month Frequency
N50D_N50C	N50D	N50C	252		6				12-Month Frequency
N50E_N50D	N50E	N50D	88		6				12-Month Frequency
N50F_N50E	N50F	N50E	313		6				12-Month Frequency
N50G_N50F	N50G	N50F	78		6				12-Month Frequency
N50H_N50G	N50H	N50G	97		6				12-Month Frequency
N51_N51A	N51	N51A	243		6				12-Month Frequency
N51A_N24	N51A	N24	106		6				12-Month Frequency
N52_N51	N52	N51	418		6				12-Month Frequency
N53_N52	N53	N52	403		6				12-Month Frequency
N53A_N53	N53A	N53	326		6				12-Month Frequency
N53B_N53A	N53B	N53A	446		6				12-Month Frequency
N53C_N53B	N53C	N53B	337		6				12-Month Frequency
N54_Unk	N54	Unk	129		6				12-Month Frequency
N55_N54	N55	N54	307		6				12-Month Frequency
N56_N51	N56	N51	289		6				12-Month Frequency
N57_N56	N57	N56	328		6				12-Month Frequency

Appendix G: Gravity Main Hot Spot Cleaning List

Facility ID	From Manhole	To Manhole	Length, ft	Material	Diameter, in.	Downstream Elevation	Upstream Elevation	Slope	Hotspot Identification
N58_N57	N58	N57	275		6				12-Month Frequency
S112A_S112	S112A	S112	155		6				12-Month Frequency
S112B_S112A	S112B	S112A	152		6				12-Month Frequency
S112C_S112B	S112C	S112B	148		6				12-Month Frequency
S96B_S96A	S96B	S96A	179		6				12-Month Frequency
S98B_Unk	S98B	Unk	105		6				12-Month Frequency
Unk_N53	Unk	N53	167		6				12-Month Frequency
Unk_S98	Unk	S98	179		6				12-Month Frequency
Unk_Unk	Unk	Unk	131		6				12-Month Frequency
		Total Length:	**35,223**	**feet**					
		Total Length:	**6.67**	**miles**					

APPENDIX H

Prioritized Inspection, Rehabilitation, Repair, and Replacement Schedule

Appendix H1: Gravity Mains Within 200 feet of Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-550_N8C	CO-550	N8C	292	6												4-Month Frequency	Yes
CO-557_N9D	CO-557	N9D	243	6												4-Month Frequency	Yes
CO-558_N22Q	CO-558	N22Q	180	6												4-Month Frequency	Yes
S203E_Unk	S203E	Unk	62	6												4-Month Frequency	Yes
S203F_S203E	S203F	S203E	96	6												4-Month Frequency	Yes
S203G_Unk	S203G	Unk	107	6												4-Month Frequency	Yes
S203H_S203G	S203H	S203G	158	6												4-Month Frequency	Yes
Unk_S202	Unk	S202	93	6												4-Month Frequency	Yes
Unk_W439	Unk	W439	12	6												4-Month Frequency	Yes
W439_Unk	W439	Unk	18	6												4-Month Frequency	Yes
4A_54	4A	54	296	8												Regular Maintenance	Yes
CO-135_W169	CO-135	W169	74	10												Regular Maintenance	Yes
CO-190_Unk	CO-190	Unk	32	8												Regular Maintenance	Yes
CO-191_W262	CO-191	W262	91	8												Regular Maintenance	Yes
CO-284_Unk	CO-284	Unk	36	6												Regular Maintenance	Yes
CO-285_W351	CO-285	W351	211	8												Regular Maintenance	Yes
CO-287_W358	CO-287	W358	100	8												Regular Maintenance	Yes
CO-298_Unk	CO-298	Unk	12	4												Regular Maintenance	Yes
CO-300_Unk	CO-300	Unk	27	2												Regular Maintenance	Yes
CO-301_Unk	CO-301	Unk	52	2												Regular Maintenance	Yes
CO-320_S86	CO-320	S86	146	6												Regular Maintenance	Yes
CO-340_Unk	CO-340	Unk	98	8												Regular Maintenance	Yes
CO-343_W406	CO-343	W406	61	4												Regular Maintenance	Yes
CO-344_W406	CO-344	W406	63	4												Regular Maintenance	Yes
CO-345_W406	CO-345	W406	66	4												Regular Maintenance	Yes
CO-373_Unk	CO-373	Unk	123	6												Regular Maintenance	Yes
CO-383_W454	CO-383	W454	149	8												Regular Maintenance	Yes
CO-385_W455	CO-385	W455	141	8												Regular Maintenance	Yes
CO-386_W459	CO-386	W459	45	6												Regular Maintenance	Yes
CO-398_W479	CO-398	W479	238	4												Regular Maintenance	Yes
CO-42_W75	CO-42	W75	37	21												Regular Maintenance	Yes
CO-427_N43	CO-427	N43	238	6												Regular Maintenance	Yes
CO-429_N20F	CO-429	N20F	223	6												Regular Maintenance	Yes
CO-430_N21C	CO-430	N21C	89	6												Regular Maintenance	Yes
CO-431_N44	CO-431	N44	506	8												Regular Maintenance	Yes
CO-432_N45E	CO-432	N45E	266	8												Regular Maintenance	Yes
CO-44_Unk	CO-44	Unk	117	4												Regular Maintenance	Yes
CO-481_W589	CO-481	W589	94	6												Regular Maintenance	Yes
CO-486_W590	CO-486	W590	134	8												Regular Maintenance	Yes
CO-488_W593	CO-488	W593	392	6												Regular Maintenance	Yes
CO-501_S106C	CO-501	S106C	72	6												Regular Maintenance	Yes
CO-502_S211D	CO-502	S211D	341	6												Regular Maintenance	Yes
CO-503_S211B	CO-503	S211B	429	6												Regular Maintenance	Yes
CO-505_S211C	CO-505	S211C	430	6												Regular Maintenance	Yes
CO-506_S212A	CO-506	S212A	382	6												Regular Maintenance	Yes
CO-514_W638	CO-514	W638	264	8												Regular Maintenance	Yes
CO-515_S224	CO-515	S224	126	6												Regular Maintenance	Yes
CO-521_W637	CO-521	W637	145	8												Regular Maintenance	Yes
CO-522_W638	CO-522	W638	136	8												Regular Maintenance	Yes
CO-552_N22P	CO-552	N22P	271	6												Regular Maintenance	Yes
CO-559_N9G	CO-559	N9G	50	6												Regular Maintenance	Yes
CO-561_N9G	CO-561	N9G	54	6												Regular Maintenance	Yes
CO-562_CO-561	CO-562	CO-561	29	6												Regular Maintenance	Yes
CO-620_W687	CO-620	W687	121	8												Regular Maintenance	Yes
CO-631_W712	CO-631	W712	294	8												Regular Maintenance	Yes
CO-632_S301	CO-632	S301	52	4												Regular Maintenance	Yes
CO-633_S238	CO-633	S238	140	6												Regular Maintenance	Yes
CO-636_W717	CO-636	W717	280	8												Regular Maintenance	Yes
CO-668_W763	CO-668	W763	202	6												Regular Maintenance	Yes
CO-671_W769	CO-671	W769	205	8												Regular Maintenance	Yes
CO-672_W768	CO-672	W768	238	8												Regular Maintenance	Yes
CO-673_W770	CO-673	W770	85	8												Regular Maintenance	Yes
CO-674_W773	CO-674	W773	77	8												Regular Maintenance	Yes
CO-679_W782	CO-679	W782	279	6												Regular Maintenance	Yes
CO-680_W777	CO-680	W777	109	6												Regular Maintenance	Yes
CO-681_W780	CO-681	W780	274	6												Regular Maintenance	Yes
CO-682_W777	CO-682	W777	240	6												Regular Maintenance	Yes
CO-689_W807	CO-689	W807	126	8												Regular Maintenance	Yes
CO-697_W816	CO-697	W816	280	8												Regular Maintenance	Yes
CO-739_Unk	CO-739	Unk	16	8												Regular Maintenance	Yes
CO-739_Unk	CO-739	Unk	36	8												Regular Maintenance	Yes
N10A_Unk	N10A	Unk	201	8												Regular Maintenance	Yes
N10D_N10A	N10D	N10A	539	6												Regular Maintenance	Yes
N11_N10A	N11	N10A	157	8												Regular Maintenance	Yes
N12_N11	N12	N11	591	8												Regular Maintenance	Yes
N21A_N21B	N21A	N21B	507	10												Regular Maintenance	Yes
N21C_W516	N21C	W516	639	6												Regular Maintenance	Yes
N22_N21A	N22	N21A	500	10												Regular Maintenance	Yes
N22A_N22	N22A	N22	85	10												Regular Maintenance	Yes
N22G_W665	N22G	W665	250	10												Regular Maintenance	Yes
N22H_N22G	N22H	N22G	268	6												Regular Maintenance	Yes
N22J_N22G	N22J	N22G	300	10												Regular Maintenance	Yes
N22M_N22J	N22M	N22J	68	10												Regular Maintenance	Yes
N22N_N22M	N22N	N22M	105	10												Regular Maintenance	Yes
N22P_N22N	N22P	N22N	113	10												Regular Maintenance	Yes
N22Q_N22P	N22Q	N22P	245	10												Regular Maintenance	Yes
N22R_N22Q	N22R	N22Q	206	6												Regular Maintenance	Yes
N40A_W929	N40A	W929	259	8												Regular Maintenance	Yes
N41A_Unk	N41A	Unk	361	6												Regular Maintenance	Yes
N43_N41	N43	N41	358	6												Regular Maintenance	Yes
N44_N43	N44	N43	370	8												Regular Maintenance	Yes
N45_Unk	N45	Unk	11	6												Regular Maintenance	Yes
N45B_N45	N45B	N45	87	6												Regular Maintenance	Yes
N45C_Unk	N45C	Unk	16	8												Regular Maintenance	Yes
N45D_N45C	N45D	N45C	287	8												Regular Maintenance	Yes
N45E_N45D	N45E	N45D	368	8												Regular Maintenance	Yes
N46_N45B	N46	N45B	222	6												Regular Maintenance	Yes
N9F_N9E	N9F	N9E	67	6												Regular Maintenance	Yes
N9G_N9F	N9G	N9F	107	6												Regular Maintenance	Yes
S1_S1A	S1	S1A	490	20												Regular Maintenance	Yes
S106A_S106	S106A	S106	260	6												Regular Maintenance	Yes
S106B_S106A	S106B	S106A	188	6												Regular Maintenance	Yes
S106C_S106B	S106C	S106B	227	6												Regular Maintenance	Yes
S115_S116	S115	S116	198	6												Regular Maintenance	Yes
S116_S117	S116	S117	160	6												Regular Maintenance	Yes
S118_S119	S118	S119	314	6												Regular Maintenance	Yes
S119_W604	S119	W604	342	6												Regular Maintenance	Yes
S181_S180	S181	S180	459	42												Regular Maintenance	Yes
S182_S181	S182	S181	495	42												Regular Maintenance	Yes
S183_S182	S183	S182	160	42												Regular Maintenance	Yes
S184_S183	S184	S183	122	24												Regular Maintenance	Yes
S185_S184	S185	S184	145	24												Regular Maintenance	Yes
S189_W353	S189	W353	250	24												Regular Maintenance	Yes
S190_W351	S190	W351	209	24												Regular Maintenance	Yes
S191_S190	S191	S190	91	24												Regular Maintenance	Yes
S192_S191	S192	S191	229	24												Regular Maintenance	Yes
S193_S192	S193	S192	391	24												Regular Maintenance	Yes
S194_S193	S194	S193	287	24												Regular Maintenance	Yes
S195_S194	S195	S194	114	24												Regular Maintenance	Yes
S196_S195	S196	S195	133	24												Regular Maintenance	Yes
S197_S196	S197	S196	248	24												Regular Maintenance	Yes
S198_S197	S198	S197	18	6												Regular Maintenance	Yes
S199_S198	S199	S198	249	24												Regular Maintenance	Yes
S2_S1	S2	S1	493	20												Regular Maintenance	Yes
S200_S199	S200	S199	92	24												Regular Maintenance	Yes
S201_S200	S201	S200	111	24												Regular Maintenance	Yes
S202_S201	S202	S201	24	6												Regular Maintenance	Yes
S202A_S202	S202A	S202	203	6												Regular Maintenance	Yes
S204_S201	S204	S201	40	24												Regular Maintenance	Yes
S215_S214	S215	S214	345	12												Regular Maintenance	Yes
S216_S215	S216	S215	77	12												Regular Maintenance	Yes
S217_S216	S217	S216	261	6												Regular Maintenance	Yes
S218_S217	S218	S217	301	6												Regular Maintenance	Yes
S220_S216	S220	S216	121	12												Regular Maintenance	Yes
S221_S220	S221	S220	72	12												Regular Maintenance	Yes
S222_S221	S222	S221	129	12												Regular Maintenance	Yes
S223_S222	S223	S222	158	6												Regular Maintenance	Yes
S224_S223	S224	S223	117	6												Regular Maintenance	Yes
S225_S224	S225	S224	254	6												Regular Maintenance	Yes
S228_S222	S228	S222	260	6												Regular Maintenance	Yes
S229_S228	S229	S228	166	6												Regular Maintenance	Yes
S230_S228	S230	S228	261	6												Regular Maintenance	Yes
S231_S230	S231	S230	265	6												Regular Maintenance	Yes
S232_S231	S232	S231	124	6												Regular Maintenance	Yes
S233_S232	S233	S232	172	6												Regular Maintenance	Yes
S234_S232	S234	S232	144	6												Regular Maintenance	Yes
S235_S234	S235	S234	111	6												Regular Maintenance	Yes

Appendix H1: Gravity Mains Within 200 feet of Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
S239_S222	S239	S222	182	12												Regular Maintenance	Yes
S24A_W347	S24A	W347	285	6												Regular Maintenance	Yes
S24B_S24A	S24B	S24A	42	6												Regular Maintenance	Yes
S258_S257	S258	S257	171	10												Regular Maintenance	Yes
S25A_Unk	S25A	Unk	299	10												Regular Maintenance	Yes
S267_S266	S267	S266	263	6												Regular Maintenance	Yes
S268_S264	S268	S264	366	10												Regular Maintenance	Yes
S269_S268	S269	S268	163	8												Regular Maintenance	Yes
S270_S269	S270	S269	153	8												Regular Maintenance	Yes
S3_54	S3	54	106	20												Regular Maintenance	Yes
S3_S2	S3	S2	191	20												Regular Maintenance	Yes
S301_S300	S301	S300	463	12												Regular Maintenance	Yes
S302_S301	S302	S301	465	12												Regular Maintenance	Yes
S303_S302	S303	S302	28	12												Regular Maintenance	Yes
S304_S303	S304	S303	123	12												Regular Maintenance	Yes
S305_S304	S305	S304	377	12												Regular Maintenance	Yes
S326_S325	S326	S325	404	24												Regular Maintenance	Yes
S327_S326	S327	S326	434	24												Regular Maintenance	Yes
S333_W74	S333	W74	149	21												Regular Maintenance	Yes
S334_W178	S334	W178	55	21												Regular Maintenance	Yes
S335_S334	S335	S334	425	21												Regular Maintenance	Yes
S336_S335	S336	S335	344	21												Regular Maintenance	Yes
S337_S336	S337	S336	319	21												Regular Maintenance	Yes
S338_S337	S338	S337	322	21												Regular Maintenance	Yes
S339_S338	S339	S338	49	10												Regular Maintenance	Yes
S339A_S339	S339A	S339	291	10												Regular Maintenance	Yes
S339B_S339A	S339B	S339A	202	10												Regular Maintenance	Yes
S5_54	S5	54	1034	14												Regular Maintenance	Yes
S67_S3	S67	S3	398	8												Regular Maintenance	Yes
S68_S67	S68	S67	331	8												Regular Maintenance	Yes
S69_S68	S69	S68	219	8												Regular Maintenance	Yes
S70_S69	S70	S69	158	6												Regular Maintenance	Yes
S71_S70	S71	S70	415	6												Regular Maintenance	Yes
S72_S71	S72	S71	162	6												Regular Maintenance	Yes
S75_W352	S75	W352	238	8												Regular Maintenance	Yes
S76_S75	S76	S75	411	8												Regular Maintenance	Yes
S78_S69	S78	S69	159	6												Regular Maintenance	Yes
S79_S78	S79	S78	406	6												Regular Maintenance	Yes
S86_Unk	S86	Unk	232	6												Regular Maintenance	Yes
S89_S26	S89	S26	128	8												Regular Maintenance	Yes
S90_S89	S90	S89	174	8												Regular Maintenance	Yes
Unk_CO-477	Unk	CO-477	80	4												Regular Maintenance	Yes
Unk_CO-632	Unk	CO-632	29	4												Regular Maintenance	Yes
Unk_N21A	Unk	N21A	42	6												Regular Maintenance	Yes
Unk_N22A	Unk	N22A	462	10												Regular Maintenance	Yes
Unk_S194	Unk	S194	28	6												Regular Maintenance	Yes
Unk_S194	Unk	S194	19	6												Regular Maintenance	Yes
Unk_S197	Unk	S197	10	10												Regular Maintenance	Yes
Unk_S199	Unk	S199	24	4												Regular Maintenance	Yes
Unk_S201	Unk	S201	20	6												Regular Maintenance	Yes
Unk_S220	Unk	S220	33	6												Regular Maintenance	Yes
Unk_S24B	Unk	S24B	67	6												Regular Maintenance	Yes
Unk_S302	Unk	S302	25	12												Regular Maintenance	Yes
Unk_S304	Unk	S304	24	12												Regular Maintenance	Yes
Unk_S333	Unk	S333	17	8												Regular Maintenance	Yes
Unk_S335	Unk	S335	22	8												Regular Maintenance	Yes
Unk_S71	Unk	S71	77	6												Regular Maintenance	Yes
Unk_S72	Unk	S72	82	4												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	40	8												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	140	4												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	287	6												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	43	6												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	65	6												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	17	6												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	25	6												Regular Maintenance	Yes
Unk_Unk	Unk	Unk	344	6												Regular Maintenance	Yes
Unk_W253	Unk	W253	71	8												Regular Maintenance	Yes
Unk_W261	Unk	W261	16	8												Regular Maintenance	Yes
Unk_W397	Unk	W397	355	15												Regular Maintenance	Yes
Unk_W404	Unk	W404	252	8												Regular Maintenance	Yes
Unk_W813	Unk	W813	100	12												Regular Maintenance	Yes
W169_W168	W169	W168	217	10												Regular Maintenance	Yes
W178_S333	W178	S333	28	21												Regular Maintenance	Yes
W181_W178	W181	W178	112	8												Regular Maintenance	Yes
W256_W253	W256	W253	201	8												Regular Maintenance	Yes
W259_W253	W259	W253	249	8												Regular Maintenance	Yes
W260_W259	W260	W259	368	8												Regular Maintenance	Yes
W261_W253	W261	W253	86	8												Regular Maintenance	Yes
W265_W264	W265	W264	107	8												Regular Maintenance	Yes
W269_W265	W269	W265	236	8												Regular Maintenance	Yes
W351_S189	W351	S189	272	24												Regular Maintenance	Yes
W352_S74	W352	S74	269	6												Regular Maintenance	Yes
W353_W354	W353	W354	153	24												Regular Maintenance	Yes
W354_W355	W354	W355	262	24												Regular Maintenance	Yes
W355_S185	W355	S185	336	24												Regular Maintenance	Yes
W356_W352	W356	W352	306	8												Regular Maintenance	Yes
W358_W359	W358	W359	303	8												Regular Maintenance	Yes
W359_W360	W359	W360	149	8												Regular Maintenance	Yes
W360_W361	W360	W361	125	8												Regular Maintenance	Yes
W361_W362	W361	W362	90	8												Regular Maintenance	Yes
W364_S69	W364	S69	346	6												Regular Maintenance	Yes
W365_W361	W365	W361	143	8												Regular Maintenance	Yes
W398_Unk	W398	Unk	711	15												Regular Maintenance	Yes
W399_W398	W399	W398	55	15												Regular Maintenance	Yes
W400_W399	W400	W399	204	12												Regular Maintenance	Yes
W401_W400	W401	W400	137	12												Regular Maintenance	Yes
W453_W452	W453	W452	126	8												Regular Maintenance	Yes
W457_W456	W457	W456	130	8												Regular Maintenance	Yes
W458_W465	W458	W465	290	18												Regular Maintenance	Yes
W464_W463	W464	W463	245	18												Regular Maintenance	Yes
W464_W465	W464	W465	116	12												Regular Maintenance	Yes
W465_W464	W465	W464	118	8												Regular Maintenance	Yes
W479_N17B	W479	N17B	123	6												Regular Maintenance	Yes
W517_W516	W517	W516	521	15												Regular Maintenance	Yes
W518_W517	W518	W517	283	15												Regular Maintenance	Yes
W593_S267	W593	S267	334	6												Regular Maintenance	Yes
W605_S116	W605	S116	231	6												Regular Maintenance	Yes
W606_S257	W606	S257	251	8												Regular Maintenance	Yes
W627_W626	W627	W626	246	8												Regular Maintenance	Yes
W628_W629	W628	W629	188	8												Regular Maintenance	Yes
W631_W630	W631	W630	261	8												Regular Maintenance	Yes
W635_W633	W635	W633	297	8												Regular Maintenance	Yes
W636_W638	W636	W638	209	8												Regular Maintenance	Yes
W637_W636	W637	W636	166	8												Regular Maintenance	Yes
W638_W453	W638	W453	208	8												Regular Maintenance	Yes
W665_W518	W665	W518	308	15												Regular Maintenance	Yes
W684_W766	W684	W766	283	18												Regular Maintenance	Yes
W686_S263	W686	S263	293	8												Regular Maintenance	Yes
W689_S258	W689	S258	86	10												Regular Maintenance	Yes
W74_W75	W74	W75	221	21												Regular Maintenance	Yes
W75_S332	W75	S332	173	21												Regular Maintenance	Yes
W766_W662	W766	W662	317	18												Regular Maintenance	Yes
W767_W766	W767	W766	57	8												Regular Maintenance	Yes
W768_W767	W768	W767	188	8												Regular Maintenance	Yes
W769_W684	W769	W684	175	8												Regular Maintenance	Yes
W770_W768	W770	W768	271	8												Regular Maintenance	Yes
W777_W778	W777	W778	107	6												Regular Maintenance	Yes
W778_W779	W778	W779	286	6												Regular Maintenance	Yes
W779_W785	W779	W785	70	6												Regular Maintenance	Yes
W780_W783	W780	W783	175	6												Regular Maintenance	Yes
W783_W781	W783	W781	237	12												Regular Maintenance	Yes
W784_W783	W784	W783	55	6												Regular Maintenance	Yes
W785_W783	W785	W783	55	12												Regular Maintenance	Yes
W790_W791	W790	W791	301	6												Regular Maintenance	Yes
W791_W796	W791	W796	266	6												Regular Maintenance	Yes
W792_W791	W792	W791	284	6												Regular Maintenance	Yes
W793_W792	W793	W792	299	6												Regular Maintenance	Yes
W796_W797	W796	W797	109	12												Regular Maintenance	Yes
W797_W785	W797	W785	134	12												Regular Maintenance	Yes
W798_W796	W798	W796	290	12												Regular Maintenance	Yes
W799_W798	W799	W798	127	12												Regular Maintenance	Yes
W800_W799	W800	W799	106	12												Regular Maintenance	Yes
W801_W800	W801	W800	119	12												Regular Maintenance	Yes
W803_W796	W803	W796	385	8												Regular Maintenance	Yes
W808_W801	W808	W801	180	6												Regular Maintenance	Yes
W809_W808	W809	W808	296	6												Regular Maintenance	Yes
W813_W801	W813	W801	81	12												Regular Maintenance	Yes

Appendix H1: Gravity Mains Within 200 feet of Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W814_W269	W814	W269	286	8												Regular Maintenance	Yes
W815_W814	W815	W814	109	8												Regular Maintenance	Yes
W816_W815	W816	W815	206	8												Regular Maintenance	Yes
W819_W818	W819	W818	238	8												Regular Maintenance	Yes
W823_W819	W823	W819	203	8												Regular Maintenance	Yes
W826_S183	W826	S183	430	33												Regular Maintenance	Yes
W921_W918	W921	W918	239	8												Regular Maintenance	Yes
W923_W924	W923	W924	225	8												Regular Maintenance	Yes
W924_W925	W924	W925	281	8												Regular Maintenance	Yes
W925_W921	W925	W921	56	8												Regular Maintenance	Yes
W929_Unk	W929	Unk	80	8												Regular Maintenance	Yes
W929_Unk	W929	Unk	102	8												Regular Maintenance	Yes
		Total Length:	**62,900**														
		Total Length:	**11.91**														

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-550_N8C	CO-550	N8C	292	6												4-Month Frequency	No
CO-557_N9D	CO-557	N9D	243	6												4-Month Frequency	No
CO-558_N22Q	CO-558	N22Q	180	6												4-Month Frequency	No
S203E_Unk	S203E	Unk	62	6												4-Month Frequency	No
S203F_S203E	S203F	S203E	96	6												4-Month Frequency	No
S203G_Unk	S203G	Unk	107	6												4-Month Frequency	No
S203H_S203G	S203H	S203G	158	6												4-Month Frequency	No
Unk_S202	Unk	S202	93	6												4-Month Frequency	No
Unk_W439	Unk	W439	12	6												4-Month Frequency	No
W439_Unk	W439	Unk	18	6												4-Month Frequency	No
4A_54	4A	54	296	8												Regular Maintenance	No
CO-135_W169	CO-135	W169	74	10												Regular Maintenance	No
CO-190_Unk	CO-190	Unk	32	8												Regular Maintenance	No
CO-191_W262	CO-191	W262	91	8												Regular Maintenance	No
CO-284_Unk	CO-284	Unk	36	6												Regular Maintenance	No
CO-285_W351	CO-285	W351	211	8												Regular Maintenance	No
CO-287_W358	CO-287	W358	100	8												Regular Maintenance	No
CO-298_Unk	CO-298	Unk	12	4												Regular Maintenance	No
CO-300_Unk	CO-300	Unk	27	2												Regular Maintenance	No
CO-301_Unk	CO-301	Unk	52	2												Regular Maintenance	No
CO-320_S86	CO-320	S86	146	6												Regular Maintenance	No
CO-340_Unk	CO-340	Unk	98	8												Regular Maintenance	No
CO-343_W406	CO-343	W406	61	4												Regular Maintenance	No
CO-344_W406	CO-344	W406	63	4												Regular Maintenance	No
CO-345_W406	CO-345	W406	66	4												Regular Maintenance	No
CO-373_Unk	CO-373	Unk	123	6												Regular Maintenance	No
CO-383_W454	CO-383	W454	149	8												Regular Maintenance	No
CO-385_W455	CO-385	W455	141	8												Regular Maintenance	No
CO-386_W459	CO-386	W459	45	6												Regular Maintenance	No
CO-398_W479	CO-398	W479	238	4												Regular Maintenance	No
CO-42_W75	CO-42	W75	37	21												Regular Maintenance	No
CO-427_N43	CO-427	N43	238	6												Regular Maintenance	No
CO-429_N20F	CO-429	N20F	223	6												Regular Maintenance	No
CO-430_N21C	CO-430	N21C	89	6												Regular Maintenance	No
CO-431_N44	CO-431	N44	506	8												Regular Maintenance	No
CO-432_N45E	CO-432	N45E	266	8												Regular Maintenance	No
CO-44_Unk	CO-44	Unk	117	4												Regular Maintenance	No
CO-481_W589	CO-481	W589	94	6												Regular Maintenance	No
CO-486_W590	CO-486	W590	134	8												Regular Maintenance	No
CO-488_W593	CO-488	W593	392	6												Regular Maintenance	No
CO-501_S106C	CO-501	S106C	72	6												Regular Maintenance	No
CO-502_S211D	CO-502	S211D	341	6												Regular Maintenance	No
CO-503_S211B	CO-503	S211B	429	6												Regular Maintenance	No
CO-505_S211C	CO-505	S211C	430	6												Regular Maintenance	No
CO-506_S212A	CO-506	S212A	382	6												Regular Maintenance	No
CO-514_W638	CO-514	W638	264	8												Regular Maintenance	No
CO-515_S224	CO-515	S224	126	6												Regular Maintenance	No
CO-521_W637	CO-521	W637	145	8												Regular Maintenance	No
CO-522_W638	CO-522	W638	136	8												Regular Maintenance	No
CO-552_N22P	CO-552	N22P	271	6												Regular Maintenance	No
CO-559_N9G	CO-559	N9G	50	6												Regular Maintenance	No
CO-561_N9G	CO-561	N9G	54	6												Regular Maintenance	No
CO-562_CO-561	CO-562	CO-561	29	6												Regular Maintenance	No
CO-620_W687	CO-620	W687	121	8												Regular Maintenance	No
CO-631_W712	CO-631	W712	294	8												Regular Maintenance	No
CO-632_S301	CO-632	S301	52	4												Regular Maintenance	No
CO-633_S238	CO-633	S238	140	6												Regular Maintenance	No
CO-636_W717	CO-636	W717	280	8												Regular Maintenance	No
CO-668_W763	CO-668	W763	202	6												Regular Maintenance	No
CO-671_W769	CO-671	W769	205	8												Regular Maintenance	No
CO-672_W768	CO-672	W768	238	8												Regular Maintenance	No
CO-673_W770	CO-673	W770	85	8												Regular Maintenance	No
CO-674_W773	CO-674	W773	77	8												Regular Maintenance	No
CO-679_W782	CO-679	W782	279	6												Regular Maintenance	No
CO-680_W777	CO-680	W777	109	6												Regular Maintenance	No
CO-681_W780	CO-681	W780	274	6												Regular Maintenance	No
CO-682_W777	CO-682	W777	240	6												Regular Maintenance	No
CO-689_W807	CO-689	W807	126	8												Regular Maintenance	No
CO-697_W816	CO-697	W816	280	8												Regular Maintenance	No
CO-739_Unk	CO-739	Unk	16	8												Regular Maintenance	No
CO-739_Unk	CO-739	Unk	36	8												Regular Maintenance	No
N10A_Unk	N10A	Unk	201	8												Regular Maintenance	No
N10D_N10A	N10D	N10A	539	6												Regular Maintenance	No
N11_N10A	N11	N10A	157	8												Regular Maintenance	No
N12_N11	N12	N11	591	8												Regular Maintenance	No
N21A_N21B	N21A	N21B	507	10												Regular Maintenance	No
N21C_W516	N21C	W516	639	6												Regular Maintenance	No
N22_N21A	N22	N21A	500	10												Regular Maintenance	No
N22A_N22	N22A	N22	85	10												Regular Maintenance	No
N22G_W665	N22G	W665	250	10												Regular Maintenance	No
N22H_N22G	N22H	N22G	268	6												Regular Maintenance	No
N22J_N22G	N22J	N22G	300	10												Regular Maintenance	No
N22M_N22J	N22M	N22J	68	10												Regular Maintenance	No
N22N_N22M	N22N	N22M	105	10												Regular Maintenance	No
N22P_N22N	N22P	N22N	113	10												Regular Maintenance	No
N22Q_N22P	N22Q	N22P	245	10												Regular Maintenance	No
N22R_N22Q	N22R	N22Q	206	6												Regular Maintenance	No
N40A_W929	N40A	W929	259	8												Regular Maintenance	No
N41A_Unk	N41A	Unk	361	6												Regular Maintenance	No
N43_N41	N43	N41	358	6												Regular Maintenance	No
N44_N43	N44	N43	370	8												Regular Maintenance	No
N45_Unk	N45	Unk	11	6												Regular Maintenance	No
N45B_N45	N45B	N45	87	6												Regular Maintenance	No
N45C_Unk	N45C	Unk	16	8												Regular Maintenance	No
N45D_N45C	N45D	N45C	287	8												Regular Maintenance	No
N45E_N45D	N45E	N45D	368	8												Regular Maintenance	No
N46_N45B	N46	N45B	222	6												Regular Maintenance	No
N9F_N9E	N9F	N9E	67	6												Regular Maintenance	No
N9G_N9F	N9G	N9F	107	6												Regular Maintenance	No
S1_S1A	S1	S1A	490	20												Regular Maintenance	No
S106A_S106	S106A	S106	260	6												Regular Maintenance	No
S106B_S106A	S106B	S106A	188	6												Regular Maintenance	No
S106C_S106B	S106C	S106B	227	6												Regular Maintenance	No
S115_S116	S115	S116	198	6												Regular Maintenance	No
S116_S117	S116	S117	160	6												Regular Maintenance	No
S118_S119	S118	S119	314	6												Regular Maintenance	No
S119_W604	S119	W604	342	6												Regular Maintenance	No
S181_S180	S181	S180	459	42												Regular Maintenance	No
S182_S181	S182	S181	495	42												Regular Maintenance	No
S183_S182	S183	S182	160	42												Regular Maintenance	No
S184_S183	S184	S183	122	24												Regular Maintenance	No
S185_S184	S185	S184	145	24												Regular Maintenance	No
S189_W353	S189	W353	250	24												Regular Maintenance	No
S190_W351	S190	W351	209	24												Regular Maintenance	No
S191_S190	S191	S190	91	24												Regular Maintenance	No
S192_S191	S192	S191	229	24												Regular Maintenance	No
S193_S192	S193	S192	391	24												Regular Maintenance	No
S194_S193	S194	S193	287	24												Regular Maintenance	No
S195_S194	S195	S194	114	24												Regular Maintenance	No
S196_S195	S196	S195	133	24												Regular Maintenance	No
S197_S196	S197	S196	248	24												Regular Maintenance	No
S198_S197	S198	S197	18	6												Regular Maintenance	No
S199_S198	S199	S198	249	24												Regular Maintenance	No
S2_S1	S2	S1	493	20												Regular Maintenance	No
S200_S199	S200	S199	92	24												Regular Maintenance	No
S201_S200	S201	S200	111	24												Regular Maintenance	No
S202_S201	S202	S201	24	6												Regular Maintenance	No
S202A_S202	S202A	S202	203	6												Regular Maintenance	No
S204_S201	S204	S201	40	24												Regular Maintenance	No
S215_S214	S215	S214	345	12												Regular Maintenance	No
S216_S215	S216	S215	77	12												Regular Maintenance	No
S217_S216	S217	S216	261	6												Regular Maintenance	No
S218_S217	S218	S217	301	6												Regular Maintenance	No
S220_S216	S220	S216	121	12												Regular Maintenance	No
S221_S220	S221	S220	72	12												Regular Maintenance	No
S222_S221	S222	S221	129	12												Regular Maintenance	No
S223_S222	S223	S222	158	6												Regular Maintenance	No
S224_S223	S224	S223	117	6												Regular Maintenance	No
S225_S224	S225	S224	254	6												Regular Maintenance	No
S228_S222	S228	S222	260	6												Regular Maintenance	No
S229_S228	S229	S228	166	6												Regular Maintenance	No
S230_S228	S230	S228	261	6												Regular Maintenance	No
S231_S230	S231	S230	265	6												Regular Maintenance	No
S232_S231	S232	S231	124	6												Regular Maintenance	No
S233_S232	S233	S232	172	6												Regular Maintenance	No
S234_S232	S234	S232	144	6												Regular Maintenance	No
S235_S234	S235	S234	111	6												Regular Maintenance	No
S239_S222	S239	S222	182	12												Regular Maintenance	No
S24A_W347	S24A	W347	285	6												Regular Maintenance	No
S24B_S24A	S24B	S24A	42	6												Regular Maintenance	No
S258_S257	S258	S257	171	10												Regular Maintenance	No
S25A_Unk	S25A	Unk	299	10												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
S267_S266	S267	S266	263	6												Regular Maintenance	No
S268_S264	S268	S264	366	10												Regular Maintenance	No
S269_S268	S269	S268	163	8												Regular Maintenance	No
S270_S269	S270	S269	153	8												Regular Maintenance	No
S3_54	S3	54	106	20												Regular Maintenance	No
S3_S2	S3	S2	191	20												Regular Maintenance	No
S301_S300	S301	S300	463	12												Regular Maintenance	No
S302_S301	S302	S301	465	12												Regular Maintenance	No
S303_S302	S303	S302	28	12												Regular Maintenance	No
S304_S303	S304	S303	123	12												Regular Maintenance	No
S305_S304	S305	S304	377	12												Regular Maintenance	No
S326_S325	S326	S325	404	24												Regular Maintenance	No
S327_S326	S327	S326	434	24												Regular Maintenance	No
S333_W74	S333	W74	149	21												Regular Maintenance	No
S334_W178	S334	W178	55	21												Regular Maintenance	No
S335_S334	S335	S334	425	21												Regular Maintenance	No
S336_S335	S336	S335	344	21												Regular Maintenance	No
S337_S336	S337	S336	319	21												Regular Maintenance	No
S338_S337	S338	S337	322	21												Regular Maintenance	No
S339_S338	S339	S338	49	10												Regular Maintenance	No
S339A_S339	S339A	S339	291	10												Regular Maintenance	No
S339B_S339A	S339B	S339A	202	10												Regular Maintenance	No
S5_54	S5	54	1034	14												Regular Maintenance	No
S67_S3	S67	S3	398	8												Regular Maintenance	No
S68_S67	S68	S67	331	8												Regular Maintenance	No
S69_S68	S69	S68	219	8												Regular Maintenance	No
S70_S69	S70	S69	158	6												Regular Maintenance	No
S71_S70	S71	S70	415	6												Regular Maintenance	No
S72_S71	S72	S71	162	6												Regular Maintenance	No
S75_W352	S75	W352	238	8												Regular Maintenance	No
S76_S75	S76	S75	411	8												Regular Maintenance	No
S78_S69	S78	S69	159	6												Regular Maintenance	No
S79_S78	S79	S78	406	6												Regular Maintenance	No
S86_Unk	S86	Unk	232	6												Regular Maintenance	No
S89_S26	S89	S26	128	8												Regular Maintenance	No
S90_S89	S90	S89	174	8												Regular Maintenance	No
Unk_CO-477	Unk	CO-477	80	4												Regular Maintenance	No
Unk_CO-632	Unk	CO-632	29	4												Regular Maintenance	No
Unk_N21A	Unk	N21A	42	6												Regular Maintenance	No
Unk_N22A	Unk	N22A	462	10												Regular Maintenance	No
Unk_S194	Unk	S194	28	6												Regular Maintenance	No
Unk_S194	Unk	S194	19	6												Regular Maintenance	No
Unk_S197	Unk	S197	10	10												Regular Maintenance	No
Unk_S199	Unk	S199	24	4												Regular Maintenance	No
Unk_S201	Unk	S201	20	6												Regular Maintenance	No
Unk_S220	Unk	S220	33	6												Regular Maintenance	No
Unk_S24B	Unk	S24B	67	6												Regular Maintenance	No
Unk_S302	Unk	S302	25	12												Regular Maintenance	No
Unk_S304	Unk	S304	24	12												Regular Maintenance	No
Unk_S333	Unk	S333	17	8												Regular Maintenance	No
Unk_S335	Unk	S335	22	8												Regular Maintenance	No
Unk_S71	Unk	S71	77	6												Regular Maintenance	No
Unk_S72	Unk	S72	82	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	40	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	140	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	287	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	43	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	65	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	17	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	25	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	344	6												Regular Maintenance	No
Unk_W253	Unk	W253	71	8												Regular Maintenance	No
Unk_W261	Unk	W261	16	8												Regular Maintenance	No
Unk_W397	Unk	W397	355	15												Regular Maintenance	No
Unk_W404	Unk	W404	252	8												Regular Maintenance	No
Unk_W813	Unk	W813	100	12												Regular Maintenance	No
W169_W168	W169	W168	217	10												Regular Maintenance	No
W178_S333	W178	S333	28	21												Regular Maintenance	No
W181_W178	W181	W178	112	8												Regular Maintenance	No
W256_W253	W256	W253	201	8												Regular Maintenance	No
W259_W253	W259	W253	249	8												Regular Maintenance	No
W260_W259	W260	W259	368	8												Regular Maintenance	No
W261_W253	W261	W253	86	8												Regular Maintenance	No
W265_W264	W265	W264	107	8												Regular Maintenance	No
W269_W265	W269	W265	236	8												Regular Maintenance	No
W351_S189	W351	S189	272	24												Regular Maintenance	No
W352_S74	W352	S74	269	6												Regular Maintenance	No
W353_W354	W353	W354	153	24												Regular Maintenance	No
W354_W355	W354	W355	262	24												Regular Maintenance	No
W355_S185	W355	S185	336	24												Regular Maintenance	No
W356_W352	W356	W352	306	8												Regular Maintenance	No
W358_W359	W358	W359	303	8												Regular Maintenance	No
W359_W360	W359	W360	149	8												Regular Maintenance	No
W360_W361	W360	W361	125	8												Regular Maintenance	No
W361_W362	W361	W362	90	8												Regular Maintenance	No
W364_S69	W364	S69	346	6												Regular Maintenance	No
W365_W361	W365	W361	143	8												Regular Maintenance	No
W398_Unk	W398	Unk	711	15												Regular Maintenance	No
W399_W398	W399	W398	55	15												Regular Maintenance	No
W400_W399	W400	W399	204	12												Regular Maintenance	No
W401_W400	W401	W400	137	12												Regular Maintenance	No
W453_W452	W453	W452	126	8												Regular Maintenance	No
W457_W456	W457	W456	130	8												Regular Maintenance	No
W458_W465	W458	W465	290	18												Regular Maintenance	No
W464_W463	W464	W463	245	18												Regular Maintenance	No
W464_W465	W464	W465	116	12												Regular Maintenance	No
W465_W464	W465	W464	118	8												Regular Maintenance	No
W479_N17B	W479	N17B	123	6												Regular Maintenance	No
W517_W516	W517	W516	521	15												Regular Maintenance	No
W518_W517	W518	W517	283	15												Regular Maintenance	No
W593_S267	W593	S267	334	6												Regular Maintenance	No
W605_S116	W605	S116	231	6												Regular Maintenance	No
W606_S257	W606	S257	251	8												Regular Maintenance	No
W627_W626	W627	W626	246	8												Regular Maintenance	No
W628_W629	W628	W629	188	8												Regular Maintenance	No
W631_W630	W631	W630	261	8												Regular Maintenance	No
W635_W633	W635	W633	297	8												Regular Maintenance	No
W636_W638	W636	W638	209	8												Regular Maintenance	No
W637_W636	W637	W636	166	8												Regular Maintenance	No
W638_W453	W638	W453	208	8												Regular Maintenance	No
W665_W518	W665	W518	308	15												Regular Maintenance	No
W684_W766	W684	W766	283	18												Regular Maintenance	No
W686_S263	W686	S263	293	8												Regular Maintenance	No
W689_S258	W689	S258	86	10												Regular Maintenance	No
W74_W75	W74	W75	221	21												Regular Maintenance	No
W75_S332	W75	S332	173	21												Regular Maintenance	No
W766_W662	W766	W662	317	18												Regular Maintenance	No
W767_W766	W767	W766	57	8												Regular Maintenance	No
W768_W767	W768	W767	188	8												Regular Maintenance	No
W769_W684	W769	W684	175	8												Regular Maintenance	No
W770_W768	W770	W768	271	8												Regular Maintenance	No
W777_W778	W777	W778	107	6												Regular Maintenance	No
W778_W779	W778	W779	286	6												Regular Maintenance	No
W779_W785	W779	W785	70	6												Regular Maintenance	No
W780_W783	W780	W783	175	6												Regular Maintenance	No
W783_W781	W783	W781	237	12												Regular Maintenance	No
W784_W783	W784	W783	55	6												Regular Maintenance	No
W785_W783	W785	W783	55	12												Regular Maintenance	No
W790_W791	W790	W791	301	6												Regular Maintenance	No
W791_W796	W791	W796	266	6												Regular Maintenance	No
W792_W791	W792	W791	284	6												Regular Maintenance	No
W793_W792	W793	W792	299	6												Regular Maintenance	No
W796_W797	W796	W797	109	12												Regular Maintenance	No
W797_W785	W797	W785	134	12												Regular Maintenance	No
W798_W796	W798	W796	290	12												Regular Maintenance	No
W799_W798	W799	W798	127	12												Regular Maintenance	No
W800_W799	W800	W799	106	12												Regular Maintenance	No
W801_W800	W801	W800	119	12												Regular Maintenance	No
W803_W796	W803	W796	385	8												Regular Maintenance	No
W808_W801	W808	W801	180	6												Regular Maintenance	No
W809_W808	W809	W808	296	6												Regular Maintenance	No
W813_W801	W813	W801	81	12												Regular Maintenance	No
W814_W269	W814	W269	286	8												Regular Maintenance	No
W815_W814	W815	W814	109	8												Regular Maintenance	No
W816_W815	W816	W815	206	8												Regular Maintenance	No
W819_W818	W819	W818	238	8												Regular Maintenance	No
W823_W819	W823	W819	203	8												Regular Maintenance	No
W826_S183	W826	S183	430	33												Regular Maintenance	No
W921_W918	W921	W918	239	8												Regular Maintenance	No
W923_W924	W923	W924	225	8												Regular Maintenance	No
W924_W925	W924	W925	281	8												Regular Maintenance	No
W925_W921	W925	W921	56	8												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W929_Unk	W929	Unk	80	8												Regular Maintenance	No
W929_Unk	W929	Unk	102	8												Regular Maintenance	No
CO-20_Unk	CO-20	Unk	16	6												4-Month Frequency	No
CO-21_Unk	CO-21	Unk	14	6												4-Month Frequency	No
CO-22_Unk	CO-22	Unk	24	6												4-Month Frequency	No
CO-23_W18	CO-23	W18	107	6												4-Month Frequency	No
CO-231_S19A	CO-231	S19A	264	6												4-Month Frequency	No
CO-24_W21	CO-24	W21	95	6												4-Month Frequency	No
CO-25_W23	CO-25	W23	95	6												4-Month Frequency	No
CO-26_N25	CO-26	N25	207	10												4-Month Frequency	No
CO-261_S20B	CO-261	S20B	291	6												4-Month Frequency	No
CO-262_S19B	CO-262	S19B	309	6												4-Month Frequency	No
CO-263_S19E	CO-263	S19E	298	6												4-Month Frequency	No
CO-264_S19D	CO-264	S19D	369	6												4-Month Frequency	No
CO-265_S19F	CO-265	S19F	353	6												4-Month Frequency	No
CO-269_Unk	CO-269	Unk	16	6												4-Month Frequency	No
CO-371_S203	CO-371	S203	153	6												4-Month Frequency	No
CO-372_S203D	CO-372	S203D	55	6												4-Month Frequency	No
CO-39_W81	CO-39	W81	199	8												4-Month Frequency	No
CO-40_W81	CO-40	W81	111	8												4-Month Frequency	No
CO-409_Unk	CO-409	Unk	63	6												4-Month Frequency	No
CO-41_W73	CO-41	W73	91	8												4-Month Frequency	No
CO-420_N303	CO-420	N303	58	8												4-Month Frequency	No
CO-421_N7D	CO-421	N7D	143	6												4-Month Frequency	No
CO-422_W507	CO-422	W507	301	6												4-Month Frequency	No
CO-423_W506	CO-423	W506	152	6												4-Month Frequency	No
CO-576_N24B	CO-576	N24B	242	6												4-Month Frequency	No
CO-577_N24B	CO-577	N24B	157	6												4-Month Frequency	No
CO-87_S43	CO-87	S43	392	6												4-Month Frequency	No
N24B_N24A	N24B	N24A	202	6												4-Month Frequency	No
N300_W503	N300	W503	58	8												4-Month Frequency	No
N301_N300	N301	N300	73	8												4-Month Frequency	No
N302_N301	N302	N301	121	8												4-Month Frequency	No
N303_N302	N303	N302	170	8												4-Month Frequency	No
N305_N302	N305	N302	153	8												4-Month Frequency	No
N7_Unk	N7	Unk	40	10												4-Month Frequency	No
N7C_W503	N7C	W503	271	8												4-Month Frequency	No
N7D_N7C	N7D	N7C	307	8												4-Month Frequency	No
N7E_N7D	N7E	N7D	300	8												4-Month Frequency	No
N8_N7C	N8	N7C	117	6												4-Month Frequency	No
N8A_N8	N8A	N8	119	8												4-Month Frequency	No
N8B_N8A	N8B	N8A	345	6												4-Month Frequency	No
N8C_N8B	N8C	N8B	347	6												4-Month Frequency	No
N9_Unk	N9	Unk	320	8												4-Month Frequency	No
N9D_N9C	N9D	N9C	222	8												4-Month Frequency	No
N9E_N9D	N9E	N9D	107	6												4-Month Frequency	No
S12_S10	S12	S10	893	8												4-Month Frequency	No
S12B_W307	S12B	W307	198	6												4-Month Frequency	No
S19A_S11	S19A	S11	203	12												4-Month Frequency	No
S19B_S19E	S19B	S19E	60	12												4-Month Frequency	No
S19D_W337	S19D	W337	219	12												4-Month Frequency	No
S19E_S19D	S19E	S19D	79	12												4-Month Frequency	No
S20_S19B	S20	S19B	56	12												4-Month Frequency	No
S203_Unk	S203	Unk	87	6												4-Month Frequency	No
S203A_Unk	S203A	Unk	119	6												4-Month Frequency	No
S203B_S203A	S203B	S203A	309	6												4-Month Frequency	No
S203C_S203B	S203C	S203B	165	6												4-Month Frequency	No
S203D_S203C	S203D	S203C	197	6												4-Month Frequency	No
S20A_S20B	S20A	S20B	185	12												4-Month Frequency	No
S21_S20A	S21	S20A	280	12												4-Month Frequency	No
S25C_S25B	S25C	S25B	303	6												4-Month Frequency	No
S32_S31	S32	S31	538	8												4-Month Frequency	No
S33_S32	S33	S32	307	6												4-Month Frequency	No
S43A_S43	S43A	S43	211	12												4-Month Frequency	No
S62_S43	S62	S43	255	6												4-Month Frequency	No
S62A_W137	S62A	W137	162	6												4-Month Frequency	No
Unk_N7	Unk	N7	56	10												4-Month Frequency	No
Unk_N8A	Unk	N8A	112	8												4-Month Frequency	No
Unk_S19A	Unk	S19A	92	12												4-Month Frequency	No
Unk_S203F	Unk	S203F	14	6												4-Month Frequency	No
Unk_S203H	Unk	S203H	264	6												4-Month Frequency	No
Unk_S25	Unk	S25	135	10												4-Month Frequency	No
Unk_Unk	Unk	Unk	215	6												4-Month Frequency	No
Unk_Unk	Unk	Unk	75	8												4-Month Frequency	No
Unk_Unk	Unk	Unk	53	8												4-Month Frequency	No
Unk_Unk	Unk	Unk	61	6												4-Month Frequency	No
Unk_Unk	Unk	Unk	66	6												4-Month Frequency	No
Unk_W17	Unk	W17	19	6												4-Month Frequency	No
Unk_W18	Unk	W18	16	6												4-Month Frequency	No
Unk_W20	Unk	W20	468	6												4-Month Frequency	No
Unk_W339	Unk	W339	86	6												4-Month Frequency	No
Unk_W47	Unk	W47	160	8												4-Month Frequency	No
Unk_W498	Unk	W498	145	6												4-Month Frequency	No
Unk_W498	Unk	W498	100	10												4-Month Frequency	No
Unk_W83	Unk	W83	66	8												4-Month Frequency	No
W109_W110	W109	W110	155	8												4-Month Frequency	No
W137_S62	W137	S62	122	6												4-Month Frequency	No
W17_W16	W17	W16	111	6												4-Month Frequency	No
W18_W17	W18	W17	252	6												4-Month Frequency	No
W21_W22	W21	W22	365	6												4-Month Frequency	No
W22_Unk	W22	Unk	289	6												4-Month Frequency	No
W23_Unk	W23	Unk	108	6												4-Month Frequency	No
W304_W305	W304	W305	392	24												4-Month Frequency	No
W306_S12	W306	S12	167	6												4-Month Frequency	No
W307_W306	W307	W306	66	6												4-Month Frequency	No
W337_Unk	W337	Unk	97	12												4-Month Frequency	No
W338_S12B	W338	S12B	246	6												4-Month Frequency	No
W339_W338	W339	W338	119	6												4-Month Frequency	No
W347_Unk	W347	Unk	211	10												4-Month Frequency	No
W37_W80	W37	W80	207	6												4-Month Frequency	No
W39_W37	W39	W37	207	8												4-Month Frequency	No
W40_W39	W40	W39	239	8												4-Month Frequency	No
W41_W40	W41	W40	219	8												4-Month Frequency	No
W42_W41	W42	W41	215	8												4-Month Frequency	No
W44_W43	W44	W43	102	8												4-Month Frequency	No
W45_W48	W45	W48	134	8												4-Month Frequency	No
W46_W45	W46	W45	213	8												4-Month Frequency	No
W47_W46	W47	W46	98	8												4-Month Frequency	No
W48_W44	W48	W44	149	8												4-Month Frequency	No
W487_N6	W487	N6	224	10												4-Month Frequency	No
W49_W42	W49	W42	77	8												4-Month Frequency	No
W494_W487	W494	W487	153	10												4-Month Frequency	No
W498_W494	W498	W494	199	10												4-Month Frequency	No
W500_W499	W500	W499	67	6												4-Month Frequency	No
W501_W500	W501	W500	84	6												4-Month Frequency	No
W502_W501	W502	W501	163	6												4-Month Frequency	No
W503_Unk	W503	Unk	284	8												4-Month Frequency	No
W505_N7E	W505	N7E	88	6												4-Month Frequency	No
W506_W505	W506	W505	62	6												4-Month Frequency	No
W507_W505	W507	W505	45	6												4-Month Frequency	No
W66_W65	W66	W65	77	8												4-Month Frequency	No
W668_W669	W668	W669	326	6												4-Month Frequency	No
W67_Unk	W67	Unk	111	8												4-Month Frequency	No
W68_Unk	W68	Unk	88	8												4-Month Frequency	No
W70_Unk	W70	Unk	122	8												4-Month Frequency	No
W72_Unk	W72	Unk	50	8												4-Month Frequency	No
W73_Unk	W73	Unk	21	8												4-Month Frequency	No
W743_W744	W743	W744	511	12												4-Month Frequency	No
W80_W109	W80	W109	138	8												4-Month Frequency	No
W81_W71	W81	W71	275	8												4-Month Frequency	No
W82_W46	W82	W46	68	8												4-Month Frequency	No
W83_W82	W83	W82	67	8												4-Month Frequency	No
CO-321_W471	CO-321	W471	266	6												6-Month Frequency	No
CO-392_W471	CO-392	W471	123	6												6-Month Frequency	No
CO-67_S56B	CO-67	S56B	355	6												6-Month Frequency	No
CO-68_Unk	CO-68	Unk	266	6												6-Month Frequency	No
N18_N15	N18	N15	253	6												6-Month Frequency	No
N19_N18	N19	N18	291	6												6-Month Frequency	No
S45A_S45	S45A	S45	104	6												6-Month Frequency	No
S56A_S45	S56A	S45	588	6												6-Month Frequency	No
S56B_S56A	S56B	S56A	295	6												6-Month Frequency	No
Unk_S45A	Unk	S45A	207	6												6-Month Frequency	No
W286_S65C	W286	S65C	147	6												6-Month Frequency	No
W471_N19	W471	N19	176	6												6-Month Frequency	No
CO-363_S98B	CO-363	S98B	179	6												12-Month Frequency	No
CO-364_S96B	CO-364	S96B	225	6												12-Month Frequency	No
CO-497_S112B	CO-497	S112B	18	6												12-Month Frequency	No
CO-572_N57	CO-572	N57	183	6												12-Month Frequency	No
CO-573_N55	CO-573	N55	370	6												12-Month Frequency	No
CO-581_N50F	CO-581	N50F	94	6												12-Month Frequency	No
CO-582_N50H	CO-582	N50H	136	6												12-Month Frequency	No
CO-583_N50H	CO-583	N50H	170	6												12-Month Frequency	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-584_N53C	CO-584	N53C	71	6												12-Month Frequency	No
CO-585_N58	CO-585	N58	417	6												12-Month Frequency	No
CO-586_N54	CO-586	N54	412	6												12-Month Frequency	No
CO-587_N53A	CO-587	N53A	121	6												12-Month Frequency	No
N50B_N50A	N50B	N50A	307	6												12-Month Frequency	No
N50C_N50B	N50C	N50B	253	6												12-Month Frequency	No
N50D_N50C	N50D	N50C	252	6												12-Month Frequency	No
N50E_N50D	N50E	N50D	88	6												12-Month Frequency	No
N50F_N50E	N50F	N50E	313	6												12-Month Frequency	No
N50G_N50F	N50G	N50F	78	6												12-Month Frequency	No
N50H_N50G	N50H	N50G	97	6												12-Month Frequency	No
N51_N51A	N51	N51A	243	6												12-Month Frequency	No
N51A_N24	N51A	N24	106	6												12-Month Frequency	No
N52_N51	N52	N51	418	6												12-Month Frequency	No
N53_N52	N53	N52	403	6												12-Month Frequency	No
N53A_N53	N53A	N53	326	6												12-Month Frequency	No
N53B_N53A	N53B	N53A	446	6												12-Month Frequency	No
N53C_N53B	N53C	N53B	337	6												12-Month Frequency	No
N54_Unk	N54	Unk	129	6												12-Month Frequency	No
N55_N54	N55	N54	307	6												12-Month Frequency	No
N56_N51	N56	N51	289	6												12-Month Frequency	No
N57_N56	N57	N56	328	6												12-Month Frequency	No
N58_N57	N58	N57	275	6												12-Month Frequency	No
S112A_S112	S112A	S112	155	6												12-Month Frequency	No
S112B_S112A	S112B	S112A	152	6												12-Month Frequency	No
S112C_S112B	S112C	S112B	148	6												12-Month Frequency	No
S96B_S96A	S96B	S96A	179	6												12-Month Frequency	No
S98B_Unk	S98B	Unk	105	6												12-Month Frequency	No
Unk_N53	Unk	N53	167	6												12-Month Frequency	No
Unk_S98	Unk	S98	179	6												12-Month Frequency	No
Unk_Unk	Unk	Unk	131	6												12-Month Frequency	No
4A_W826	4A	W826	70	8												Regular Maintenance	No
4B_Unk	4B	Unk	52	6												Regular Maintenance	No
4D_4B	4D	4B	258	6												Regular Maintenance	No
4E_4D	4E	4D	136	6												Regular Maintenance	No
CO-100_W216	CO-100	W216	487	8												Regular Maintenance	No
CO-101_S331	CO-101	S331	77	8												Regular Maintenance	No
CO-102_Unk	CO-102	Unk	16	6												Regular Maintenance	No
CO-107_S42B	CO-107	S42B	116	6												Regular Maintenance	No
CO-108_W136	CO-108	W136	81	6												Regular Maintenance	No
CO-109_S43B	CO-109	S43B	227	6												Regular Maintenance	No
CO-110_Unk	CO-110	Unk	135	14												Regular Maintenance	No
CO-111_W144	CO-111	W144	176	8												Regular Maintenance	No
CO-112_W208	CO-112	W208	644	8												Regular Maintenance	No
CO-113_Unk	CO-113	Unk	29	8												Regular Maintenance	No
CO-114_S312A	CO-114	S312A	41	6												Regular Maintenance	No
CO-115_S312A	CO-115	S312A	134	6												Regular Maintenance	No
CO-116_S312A	CO-116	S312A	139	6												Regular Maintenance	No
CO-117_CO-116	CO-117	CO-116	97	4												Regular Maintenance	No
CO-118_S315	CO-118	S315	88	8												Regular Maintenance	No
CO-119_CO-118	CO-119	CO-118	69	8												Regular Maintenance	No
CO-12_N33A	CO-12	N33A	250	10												Regular Maintenance	No
CO-120_Unk	CO-120	Unk	12	8												Regular Maintenance	No
CO-121_S351	CO-121	S351	376	8												Regular Maintenance	No
CO-122_W86	CO-122	W86	174	6												Regular Maintenance	No
CO-128_Unk	CO-128	Unk	51	4												Regular Maintenance	No
CO-13_W3	CO-13	W3	84	8												Regular Maintenance	No
CO-136_Unk	CO-136	Unk	54	6												Regular Maintenance	No
CO-137_CO-136	CO-137	CO-136	161	6												Regular Maintenance	No
CO-138_CO-137	CO-138	CO-137	117	6												Regular Maintenance	No
CO-139_W182	CO-139	W182	50	6												Regular Maintenance	No
CO-14_W5	CO-14	W5	125	8												Regular Maintenance	No
CO-142_Unk	CO-142	Unk	169	6												Regular Maintenance	No
CO-143_CO-142	CO-143	CO-142	280	6												Regular Maintenance	No
CO-144_S353	CO-144	S353	147	8												Regular Maintenance	No
CO-145_S352	CO-145	S352	340	8												Regular Maintenance	No
CO-146_S355	CO-146	S355	34	8												Regular Maintenance	No
CO-147_S356	CO-147	S356	255	8												Regular Maintenance	No
CO-148_Unk	CO-148	Unk	13	6												Regular Maintenance	No
CO-149_Unk	CO-149	Unk	12	6												Regular Maintenance	No
CO-15_W8	CO-15	W8	107	8												Regular Maintenance	No
CO-150_Unk	CO-150	Unk	15	6												Regular Maintenance	No
CO-151_Unk	CO-151	Unk	12	6												Regular Maintenance	No
CO-152_Unk	CO-152	Unk	10	6												Regular Maintenance	No
CO-153_Unk	CO-153	Unk	41	6												Regular Maintenance	No
CO-154_Unk	CO-154	Unk	40	6												Regular Maintenance	No
CO-155_S130K	CO-155	S130K	115	6												Regular Maintenance	No
CO-156_S130P	CO-156	S130P	213	6												Regular Maintenance	No
CO-157_CO-158	CO-157	CO-158	83	6												Regular Maintenance	No
CO-158_CO-159	CO-158	CO-159	66	6												Regular Maintenance	No
CO-159_W195	CO-159	W195	32	6												Regular Maintenance	No
CO-16_W9	CO-16	W9	256	8												Regular Maintenance	No
CO-160_W196	CO-160	W196	93	6												Regular Maintenance	No
CO-161_CO-160	CO-161	CO-160	26	6												Regular Maintenance	No
CO-162_Unk	CO-162	Unk	20	4												Regular Maintenance	No
CO-163_Unk	CO-163	Unk	10	6												Regular Maintenance	No
CO-164_Unk	CO-164	Unk	13	4												Regular Maintenance	No
CO-165_Unk	CO-165	Unk	18	4												Regular Maintenance	No
CO-166_Unk	CO-166	Unk	98	4												Regular Maintenance	No
CO-167_S175	CO-167	S175	207	6												Regular Maintenance	No
CO-168_S173B	CO-168	S173B	318	6												Regular Maintenance	No
CO-169_W98	CO-169	W98	153	6												Regular Maintenance	No
CO-17_N33	CO-17	N33	65	6												Regular Maintenance	No
CO-170_W200	CO-170	W200	329	6												Regular Maintenance	No
CO-171_S53B	CO-171	S53B	237	6												Regular Maintenance	No
CO-172_W207	CO-172	W207	166	8												Regular Maintenance	No
CO-173_S169	CO-173	S169	220	6												Regular Maintenance	No
CO-174_S130M	CO-174	S130M	79	6												Regular Maintenance	No
CO-175_S130F	CO-175	S130F	291	6												Regular Maintenance	No
CO-176_S148	CO-176	S148	391	6												Regular Maintenance	No
CO-177_S149	CO-177	S149	311	6												Regular Maintenance	No
CO-178_S156	CO-178	S156	72	6												Regular Maintenance	No
CO-179_Unk	CO-179	Unk	164	6												Regular Maintenance	No
CO-180_S163	CO-180	S163	131	6												Regular Maintenance	No
CO-181_W217	CO-181	W217	96	8												Regular Maintenance	No
CO-183_W220	CO-183	W220	138	8												Regular Maintenance	No
CO-184_W223	CO-184	W223	76	8												Regular Maintenance	No
CO-185_W230	CO-185	W230	334	8												Regular Maintenance	No
CO-186_W232	CO-186	W232	144	8												Regular Maintenance	No
CO-187_W237	CO-187	W237	121	8												Regular Maintenance	No
CO-188_W252	CO-188	W252	99	8												Regular Maintenance	No
CO-189_W260	CO-189	W260	172	8												Regular Maintenance	No
CO-193_W270	CO-193	W270	126	8												Regular Maintenance	No
CO-194_W271	CO-194	W271	131	8												Regular Maintenance	No
CO-195_S60G	CO-195	S60G	270	6												Regular Maintenance	No
CO-196_W276	CO-196	W276	253	6												Regular Maintenance	No
CO-197_S60C	CO-197	S60C	323	6												Regular Maintenance	No
CO-198_W277	CO-198	W277	106	6												Regular Maintenance	No
CO-199_W278	CO-199	W278	346	6												Regular Maintenance	No
CO-2_N37C	CO-2	N37C	174	6												Regular Maintenance	No
CO-200_W282	CO-200	W282	221	8												Regular Maintenance	No
CO-201_W280	CO-201	W280	215	8												Regular Maintenance	No
CO-202_S18	CO-202	S18	198	6												Regular Maintenance	No
CO-203_S15	CO-203	S15	277	8												Regular Maintenance	No
CO-204_S13A	CO-204	S13A	192	6												Regular Maintenance	No
CO-205_S13C	CO-205	S13C	260	6												Regular Maintenance	No
CO-206_S65B	CO-206	S65B	224	6												Regular Maintenance	No
CO-207_S63F	CO-207	S63F	151	6												Regular Maintenance	No
CO-208_S63D	CO-208	S63D	255	6												Regular Maintenance	No
CO-209_S63D	CO-209	S63D	100	6												Regular Maintenance	No
CO-210_S63A	CO-210	S63A	119	6												Regular Maintenance	No
CO-211_S64T	CO-211	S64T	99	6												Regular Maintenance	No
CO-212_S64J	CO-212	S64J	213	6												Regular Maintenance	No
CO-213_S64P	CO-213	S64P	156	6												Regular Maintenance	No
CO-214_S64Q	CO-214	S64Q	126	6												Regular Maintenance	No
CO-215_S64R	CO-215	S64R	264	8												Regular Maintenance	No
CO-216_Unk	CO-216	Unk	50	8												Regular Maintenance	No
CO-217_CO-218	CO-217	CO-218	47	4												Regular Maintenance	No
CO-218_S39	CO-218	S39	147	6												Regular Maintenance	No
CO-219_S314	CO-219	S314	89	8												Regular Maintenance	No
CO-220_W290	CO-220	W290	29	8												Regular Maintenance	No
CO-221_W292	CO-221	W292	191	8												Regular Maintenance	No
CO-222_W295	CO-222	W295	139	8												Regular Maintenance	No
CO-223_W297	CO-223	W297	92	8												Regular Maintenance	No
CO-224_W298	CO-224	W298	218	6												Regular Maintenance	No
CO-225_W296	CO-225	W296	182	8												Regular Maintenance	No
CO-226_W300	CO-226	W300	202	6												Regular Maintenance	No
CO-227_W300	CO-227	W300	205	6												Regular Maintenance	No
CO-228_S11E	CO-228	S11E	200	6												Regular Maintenance	No
CO-229_S11D	CO-229	S11D	282	6												Regular Maintenance	No
CO-230_S11C	CO-230	S11C	194	6												Regular Maintenance	No
CO-232_CO-233	CO-232	CO-233	632	6												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-233_4E	CO-233	4E	231	6												Regular Maintenance	No
CO-234_W312	CO-234	W312	83	10												Regular Maintenance	No
CO-235_S389	CO-235	S389	191	10												Regular Maintenance	No
CO-236_S386	CO-236	S386	357	6												Regular Maintenance	No
CO-237_W318	CO-237	W318	202	6												Regular Maintenance	No
CO-238_W319	CO-238	W319	113	6												Regular Maintenance	No
CO-239_W317	CO-239	W317	300	6												Regular Maintenance	No
CO-240_W320	CO-240	W320	192	6												Regular Maintenance	No
CO-241_S403	CO-241	S403	88	6												Regular Maintenance	No
CO-242_S397	CO-242	S397	120	6												Regular Maintenance	No
CO-243_S401	CO-243	S401	204	8												Regular Maintenance	No
CO-244_S401	CO-244	S401	228	6												Regular Maintenance	No
CO-245_S398	CO-245	S398	230	6												Regular Maintenance	No
CO-246_S404	CO-246	S404	309	6												Regular Maintenance	No
CO-247_S406	CO-247	S406	216	6												Regular Maintenance	No
CO-248_S405	CO-248	S405	137	8												Regular Maintenance	No
CO-249_W329	CO-249	W329	301	6												Regular Maintenance	No
CO-250_W330	CO-250	W330	280	6												Regular Maintenance	No
CO-251_S419	CO-251	S419	121	6												Regular Maintenance	No
CO-252_W326	CO-252	W326	154	8												Regular Maintenance	No
CO-253_Unk	CO-253	Unk	82	4												Regular Maintenance	No
CO-254_Unk	CO-254	Unk	67	4												Regular Maintenance	No
CO-255_S14	CO-255	S14	253	6												Regular Maintenance	No
CO-257_W335	CO-257	W335	372	6												Regular Maintenance	No
CO-258_S35B	CO-258	S35B	196	6												Regular Maintenance	No
CO-259_S33	CO-259	S33	216	6												Regular Maintenance	No
CO-260_S31	CO-260	S31	49	6												Regular Maintenance	No
CO-266_W338	CO-266	W338	67	6												Regular Maintenance	No
CO-27_N23R	CO-27	N23R	97	6												Regular Maintenance	No
CO-270_S22G	CO-270	S22G	173	6												Regular Maintenance	No
CO-271_S22D	CO-271	S22D	119	6												Regular Maintenance	No
CO-272_W346	CO-272	W346	74	6												Regular Maintenance	No
CO-273_Unk	CO-273	Unk	15	4												Regular Maintenance	No
CO-274_Unk	CO-274	Unk	17	4												Regular Maintenance	No
CO-275_Unk	CO-275	Unk	12	4												Regular Maintenance	No
CO-276_Unk	CO-276	Unk	78	4												Regular Maintenance	No
CO-277_S23I	CO-277	S23I	68	6												Regular Maintenance	No
CO-278_S23C	CO-278	S23C	187	6												Regular Maintenance	No
CO-279_Unk	CO-279	Unk	9	6												Regular Maintenance	No
CO-28_N23R	CO-28	N23R	22	6												Regular Maintenance	No
CO-280_S23G	CO-280	S23G	219	6												Regular Maintenance	No
CO-281_S23H	CO-281	S23H	98	6												Regular Maintenance	No
CO-282_S23H	CO-282	S23H	206	6												Regular Maintenance	No
CO-283_W349	CO-283	W349	211	6												Regular Maintenance	No
CO-286_W357	CO-286	W357	65	8												Regular Maintenance	No
CO-288_W365	CO-288	W365	198	8												Regular Maintenance	No
CO-289_Unk	CO-289	Unk	18	6												Regular Maintenance	No
CO-29_N230	CO-29	N230	106	6												Regular Maintenance	No
CO-290_Unk	CO-290	Unk	65	6												Regular Maintenance	No
CO-291_Unk	CO-291	Unk	14	6												Regular Maintenance	No
CO-292_CO-291	CO-292	CO-291	100	6												Regular Maintenance	No
CO-293_CO-292	CO-293	CO-292	99	6												Regular Maintenance	No
CO-294_Unk	CO-294	Unk	21	6												Regular Maintenance	No
CO-295_Unk	CO-295	Unk	90	6												Regular Maintenance	No
CO-296_Unk	CO-296	Unk	194	6												Regular Maintenance	No
CO-297_Unk	CO-297	Unk	14	6												Regular Maintenance	No
CO-3_W1	CO-3	W1	182	6												Regular Maintenance	No
CO-30_W38	CO-30	W38	187	8												Regular Maintenance	No
CO-302_W366	CO-302	W366	22	6												Regular Maintenance	No
CO-303_Unk	CO-303	Unk	61	6												Regular Maintenance	No
CO-304_Unk	CO-304	Unk	42	6												Regular Maintenance	No
CO-305_Unk	CO-305	Unk	33	6												Regular Maintenance	No
CO-306_CO-305	CO-306	CO-305	85	6												Regular Maintenance	No
CO-307_Unk	CO-307	Unk	25	6												Regular Maintenance	No
CO-308_Unk	CO-308	Unk	115	6												Regular Maintenance	No
CO-309_Unk	CO-309	Unk	74	6												Regular Maintenance	No
CO-31_Unk	CO-31	Unk	67	6												Regular Maintenance	No
CO-317_S84	CO-317	S84	168	4												Regular Maintenance	No
CO-318_S85	CO-318	S85	164	4												Regular Maintenance	No
CO-319_Unk	CO-319	Unk	157	6												Regular Maintenance	No
CO-32_N23V	CO-32	N23V	153	6												Regular Maintenance	No
CO-322_W372	CO-322	W372	193	8												Regular Maintenance	No
CO-323_W374	CO-323	W374	247	8												Regular Maintenance	No
CO-324_W375	CO-324	W375	284	8												Regular Maintenance	No
CO-325_N2C	CO-325	N2C	258	6												Regular Maintenance	No
CO-326_N3D	CO-326	N3D	182	6												Regular Maintenance	No
CO-327_N3D	CO-327	N3D	196	6												Regular Maintenance	No
CO-328_N2E	CO-328	N2E	209	6												Regular Maintenance	No
CO-329_W380	CO-329	W380	107	8												Regular Maintenance	No
CO-33_N14B	CO-33	N14B	75	6												Regular Maintenance	No
CO-330_W898	CO-330	W898	364	8												Regular Maintenance	No
CO-331_W382	CO-331	W382	165	8												Regular Maintenance	No
CO-332_W397	CO-332	W397	243	8												Regular Maintenance	No
CO-333_N4A	CO-333	N4A	242	6												Regular Maintenance	No
CO-334_CO-335	CO-334	CO-335	90	6												Regular Maintenance	No
CO-335_CO-336	CO-335	CO-336	83	6												Regular Maintenance	No
CO-336_CO-337	CO-336	CO-337	111	6												Regular Maintenance	No
CO-337_W383	CO-337	W383	99	6												Regular Maintenance	No
CO-338_Unk	CO-338	Unk	27	4												Regular Maintenance	No
CO-339_CO-338	CO-339	CO-338	152	4												Regular Maintenance	No
CO-34_Unk	CO-34	Unk	15	6												Regular Maintenance	No
CO-341_W403	CO-341	W403	208	8												Regular Maintenance	No
CO-342_W403	CO-342	W403	187	8												Regular Maintenance	No
CO-346_N47M	CO-346	N47M	139	6												Regular Maintenance	No
CO-347_N47F	CO-347	N47F	196	6												Regular Maintenance	No
CO-348_N47J	CO-348	N47J	161	6												Regular Maintenance	No
CO-349_Unk	CO-349	Unk	151	4												Regular Maintenance	No
CO-35_Unk	CO-35	Unk	36	6												Regular Maintenance	No
CO-350_W409	CO-350	W409	206	8												Regular Maintenance	No
CO-351_W332	CO-351	W332	282	6												Regular Maintenance	No
CO-352_S418	CO-352	S418	163	6												Regular Maintenance	No
CO-353_S413	CO-353	S413	159	6												Regular Maintenance	No
CO-354_S413	CO-354	S413	206	6												Regular Maintenance	No
CO-355_W422	CO-355	W422	53	8												Regular Maintenance	No
CO-356_CO-355	CO-356	CO-355	92	8												Regular Maintenance	No
CO-357_W428	CO-357	W428	141	8												Regular Maintenance	No
CO-358_S36	CO-358	S36	331	6												Regular Maintenance	No
CO-359_S37	CO-359	S37	187	6												Regular Maintenance	No
CO-36_W64	CO-36	W64	186	8												6-Month Frequency	No
CO-360_CO-359	CO-360	CO-359	126	6												Regular Maintenance	No
CO-361_S30A	CO-361	S30A	224	6												Regular Maintenance	No
CO-362_W435	CO-362	W435	169	6												Regular Maintenance	No
CO-365_S99A	CO-365	S99A	109	6												Regular Maintenance	No
CO-366_S99C	CO-366	S99C	54	6												Regular Maintenance	No
CO-367_S104A	CO-367	S104A	114	6												Regular Maintenance	No
CO-368_S105A	CO-368	S105A	83	6												Regular Maintenance	No
CO-369_Unk	CO-369	Unk	437	6												Regular Maintenance	No
CO-37_W64	CO-37	W64	135	8												6-Month Frequency	No
CO-370_S22H	CO-370	S22H	287	6												Regular Maintenance	No
CO-374_S202B	CO-374	S202B	181	6												Regular Maintenance	No
CO-375_S202B	CO-375	S202B	207	6												Regular Maintenance	No
CO-377_Unk	CO-377	Unk	24	8												Regular Maintenance	No
CO-378_Unk	CO-378	Unk	25	4												Regular Maintenance	No
CO-379_Unk	CO-379	Unk	10	4												Regular Maintenance	No
CO-38_W61	CO-38	W61	203	8												6-Month Frequency	No
CO-380_Unk	CO-380	Unk	9	4												Regular Maintenance	No
CO-381_W454	CO-381	W454	127	8												Regular Maintenance	No
CO-382_CO-492	CO-382	CO-492	91	6												Regular Maintenance	No
CO-384_W455	CO-384	W455	124	8												Regular Maintenance	No
CO-387_W462	CO-387	W462	176	6												Regular Maintenance	No
CO-388_W469	CO-388	W469	36	6												Regular Maintenance	No
CO-389_CO-388	CO-389	CO-388	47	6												Regular Maintenance	No
CO-390_Unk	CO-390	Unk	25	6												Regular Maintenance	No
CO-391_CO-390	CO-391	CO-390	47	6												Regular Maintenance	No
CO-393_W476	CO-393	W476	38	4												Regular Maintenance	No
CO-394_Unk	CO-394	Unk	13	4												Regular Maintenance	No
CO-395_Unk	CO-395	Unk	17	8												Regular Maintenance	No
CO-396_Unk	CO-396	Unk	55	4												Regular Maintenance	No
CO-397_Unk	CO-397	Unk	11	4												Regular Maintenance	No
CO-399_N17B	CO-399	N17B	53	6												Regular Maintenance	No
CO-400_N17A	CO-400	N17A	22	8												Regular Maintenance	No
CO-401_Unk	CO-401	Unk	74	4												Regular Maintenance	No
CO-408_W487	CO-408	W487	29	6												Regular Maintenance	No
CO-410_Unk	CO-410	Unk	96	8												Regular Maintenance	No
CO-411_CO-410	CO-411	CO-410	96	8												Regular Maintenance	No
CO-412_Unk	CO-412	Unk	61	6												Regular Maintenance	No
CO-413_Unk	CO-413	Unk	24	6												Regular Maintenance	No
CO-414_Unk	CO-414	Unk	42	6												Regular Maintenance	No
CO-415_N7B	CO-415	N7B	20	6												Regular Maintenance	No
CO-416_CO-415	CO-416	CO-415	29	6												Regular Maintenance	No
CO-417_CO-416	CO-417	CO-416	62	6												Regular Maintenance	No
CO-424_N306	CO-424	N306	99	8												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-425_W508	CO-425	W508	268	6												Regular Maintenance	No
CO-426_N20C	CO-426	N20C	330	6												Regular Maintenance	No
CO-428_W515	CO-428	W515	225	6												Regular Maintenance	No
CO-43_Unk	CO-43	Unk	20	6												Regular Maintenance	No
CO-433_N45I	CO-433	N45I	227	6												Regular Maintenance	No
CO-434_W520	CO-434	W520	177	8												Regular Maintenance	No
CO-435_N45K	CO-435	N45K	147	8												Regular Maintenance	No
CO-436_Unk	CO-436	Unk	40	4												Regular Maintenance	No
CO-437_N40J	CO-437	N40J	171	6												Regular Maintenance	No
CO-438_N40E	CO-438	N40E	96	6												Regular Maintenance	No
CO-439_W523	CO-439	W523	248	8												Regular Maintenance	No
CO-440_N40K	CO-440	N40K	174	6												Regular Maintenance	No
CO-441_W528	CO-441	W528	107	8												Regular Maintenance	No
CO-442_W528	CO-442	W528	193	8												Regular Maintenance	No
CO-443_W530	CO-443	W530	215	6												Regular Maintenance	No
CO-444_N40Q	CO-444	N40Q	318	6												Regular Maintenance	No
CO-445_N40I	CO-445	N40I	219	6												Regular Maintenance	No
CO-446_N40R	CO-446	N40R	311	6												Regular Maintenance	No
CO-447_N40T	CO-447	N40T	95	6												Regular Maintenance	No
CO-448_W532	CO-448	W532	217	6												Regular Maintenance	No
CO-449_N40S	CO-449	N40S	375	6												Regular Maintenance	No
CO-45_Unk	CO-45	Unk	9	6												Regular Maintenance	No
CO-450_W536	CO-450	W536	128	6												Regular Maintenance	No
CO-451_N49E	CO-451	N49E	172	6												Regular Maintenance	No
CO-452_N49E	CO-452	N49E	127	6												Regular Maintenance	No
CO-453_W542	CO-453	W542	140	6												Regular Maintenance	No
CO-454_W544	CO-454	W544	192	8												Regular Maintenance	No
CO-455_W544	CO-455	W544	86	8												Regular Maintenance	No
CO-456_W551	CO-456	W551	209	6												Regular Maintenance	No
CO-457_W548	CO-457	W548	296	6												Regular Maintenance	No
CO-458_W553	CO-458	W553	216	6												Regular Maintenance	No
CO-459_W556	CO-459	W556	344	6												Regular Maintenance	No
CO-46_W77	CO-46	W77	139	8												Regular Maintenance	No
CO-460_W558	CO-460	W558	187	6												Regular Maintenance	No
CO-461_W557	CO-461	W557	121	6												Regular Maintenance	No
CO-462_W560	CO-462	W560	123	6												Regular Maintenance	No
CO-464_W561	CO-464	W561	224	6												Regular Maintenance	No
CO-465_W563	CO-465	W563	168	6												Regular Maintenance	No
CO-466_S112T	CO-466	S112T	141	6												Regular Maintenance	No
CO-467_S112N	CO-467	S112N	102	6												Regular Maintenance	No
CO-468_S112K	CO-468	S112K	283	6												Regular Maintenance	No
CO-469_W585	CO-469	W585	239	6												Regular Maintenance	No
CO-47_Unk	CO-47	Unk	171	4												Regular Maintenance	No
CO-470_W575	CO-470	W575	245	6												Regular Maintenance	No
CO-471_W582	CO-471	W582	277	6												Regular Maintenance	No
CO-472_W586	CO-472	W586	233	6												Regular Maintenance	No
CO-473_W586	CO-473	W586	313	6												Regular Maintenance	No
CO-474_W587	CO-474	W587	401	6												Regular Maintenance	No
CO-475_S277	CO-475	S277	253	6												Regular Maintenance	No
CO-476_S274	CO-476	S274	202	4												Regular Maintenance	No
CO-477_CO-476	CO-477	CO-476	98	4												Regular Maintenance	No
CO-478_S273	CO-478	S273	157	6												Regular Maintenance	No
CO-479_S272	CO-479	S272	212	6												Regular Maintenance	No
CO-48_Unk	CO-48	Unk	183	4												Regular Maintenance	No
CO-480_S271	CO-480	S271	208	6												Regular Maintenance	No
CO-482_W591	CO-482	W591	172	6												Regular Maintenance	No
CO-483_W596	CO-483	W596	176	6												Regular Maintenance	No
CO-484_W596	CO-484	W596	279	6												Regular Maintenance	No
CO-485_W595	CO-485	W595	268	6												Regular Maintenance	No
CO-487_W592	CO-487	W592	228	6												Regular Maintenance	No
CO-489_W594	CO-489	W594	142	6												Regular Maintenance	No
CO-49_Unk	CO-49	Unk	143	4												Regular Maintenance	No
CO-490_W594	CO-490	W594	274	6												Regular Maintenance	No
CO-491_W598	CO-491	W598	48	6												Regular Maintenance	No
CO-492_Unk	CO-492	Unk	106	6												Regular Maintenance	No
CO-493_S108C	CO-493	S108C	150	6												Regular Maintenance	No
CO-494_S109B	CO-494	S109B	72	6												Regular Maintenance	No
CO-495_S109D	CO-495	S109D	270	6												Regular Maintenance	No
CO-496_S110A	CO-496	S110A	249	6												Regular Maintenance	No
CO-498_S115	CO-498	S115	183	6												Regular Maintenance	No
CO-499_S121B	CO-499	S121B	148	6												Regular Maintenance	No
CO-50_W85	CO-50	W85	176	6												Regular Maintenance	No
CO-500_S122A	CO-500	S122A	97	6												Regular Maintenance	No
CO-504_S211C	CO-504	S211C	339	6												Regular Maintenance	No
CO-507_W607	CO-507	W607	198	8												Regular Maintenance	No
CO-508_S256	CO-508	S256	200	8												Regular Maintenance	No
CO-509_W609	CO-509	W609	192	8												Regular Maintenance	No
CO-51_W95	CO-51	W95	127	6												Regular Maintenance	No
CO-510_S219	CO-510	S219	140	6												Regular Maintenance	No
CO-511_W613	CO-511	W613	204	8												Regular Maintenance	No
CO-512_W613	CO-512	W613	86	8												Regular Maintenance	No
CO-513_W636	CO-513	W636	271	8												Regular Maintenance	No
CO-516_S227	CO-516	S227	147	6												Regular Maintenance	No
CO-517_W620	CO-517	W620	142	6												Regular Maintenance	No
CO-518_W620	CO-518	W620	268	6												Regular Maintenance	No
CO-519_W621	CO-519	W621	54	6												Regular Maintenance	No
CO-520_W626	CO-520	W626	99	8												Regular Maintenance	No
CO-523_W642	CO-523	W642	85	4												Regular Maintenance	No
CO-524_CO-523	CO-524	CO-523	98	4												Regular Maintenance	No
CO-525_CO-524	CO-525	CO-524	31	4												Regular Maintenance	No
CO-526_W644	CO-526	W644	268	8												Regular Maintenance	No
CO-527_W646	CO-527	W646	121	6												Regular Maintenance	No
CO-528_CO-527	CO-528	CO-527	115	6												Regular Maintenance	No
CO-529_CO-528	CO-529	CO-528	138	6												Regular Maintenance	No
CO-53_Unk	CO-53	Unk	184	8												Regular Maintenance	No
CO-530_W647	CO-530	W647	145	6												Regular Maintenance	No
CO-531_W647	CO-531	W647	146	6												Regular Maintenance	No
CO-532_W658	CO-532	W658	198	8												Regular Maintenance	No
CO-533_Unk	CO-533	Unk	19	6												Regular Maintenance	No
CO-534_Unk	CO-534	Unk	84	4												Regular Maintenance	No
CO-535_N171	CO-535	N171	342	6												Regular Maintenance	No
CO-54_W96	CO-54	W96	266	6												Regular Maintenance	No
CO-544_CO-545	CO-544	CO-545	81	8												Regular Maintenance	No
CO-545_Unk	CO-545	Unk	70	8												Regular Maintenance	No
CO-546_N9B	CO-546	N9B	97	6												Regular Maintenance	No
CO-547_N9B	CO-547	N9B	71	6												Regular Maintenance	No
CO-548_CO-547	CO-548	CO-547	67	6												Regular Maintenance	No
CO-549_N22L	CO-549	N22L	187	6												Regular Maintenance	No
CO-55_Unk	CO-55	Unk	74	4												Regular Maintenance	No
CO-551_N22H	CO-551	N22H	105	6												Regular Maintenance	No
CO-553_N22E	CO-553	N22E	112	6												Regular Maintenance	No
CO-554_N22I	CO-554	N22I	113	6												Regular Maintenance	No
CO-555_N22R	CO-555	N22R	217	6												Regular Maintenance	No
CO-556_N22I	CO-556	N22I	164	6												Regular Maintenance	No
CO-56_Unk	CO-56	Unk	10	4												Regular Maintenance	No
CO-560_CO-559	CO-560	CO-559	29	6												Regular Maintenance	No
CO-563_N10D	CO-563	N10D	248	6												Regular Maintenance	No
CO-564_N10C	CO-564	N10C	56	6												Regular Maintenance	No
CO-565_N23J	CO-565	N23J	287	6												Regular Maintenance	No
CO-566_N23H	CO-566	N23H	149	6												Regular Maintenance	No
CO-567_N22D	CO-567	N22D	172	6												Regular Maintenance	No
CO-568_N22F	CO-568	N22F	189	6												Regular Maintenance	No
CO-569_N22F	CO-569	N22F	276	6												Regular Maintenance	No
CO-57_Unk	CO-57	Unk	77	4												Regular Maintenance	No
CO-570_N45I	CO-570	N45I	391	6												Regular Maintenance	No
CO-571_N50A	CO-571	N50A	265	6												Regular Maintenance	No
CO-574_N24	CO-574	N24	522	6												Regular Maintenance	No
CO-575_Unk	CO-575	Unk	286	6												Regular Maintenance	No
CO-578_N23D	CO-578	N23D	244	6												Regular Maintenance	No
CO-579_Unk	CO-579	Unk	231	6												Regular Maintenance	No
CO-58_Unk	CO-58	Unk	11	4												Regular Maintenance	No
CO-580_N32A	CO-580	N32A	375	6												Regular Maintenance	No
CO-590_N32C	CO-590	N32C	129	6												Regular Maintenance	No
CO-591_CO-17	CO-591	CO-17	46	6												Regular Maintenance	No
CO-592_CO-591	CO-592	CO-591	114	6												Regular Maintenance	No
CO-593_CO-592	CO-593	CO-592	94	6												Regular Maintenance	No
CO-594_CO-593	CO-594	CO-593	26	6												Regular Maintenance	No
CO-595_CO-594	CO-595	CO-594	26	6												Regular Maintenance	No
CO-596_CO-595	CO-596	CO-595	78	6												Regular Maintenance	No
CO-597_N33A	CO-597	N33A	242	6												Regular Maintenance	No
CO-598_N33C	CO-598	N33C	180	6												Regular Maintenance	No
CO-599_N33D	CO-599	N33D	185	6												Regular Maintenance	No
CO-6_Unk	CO-6	Unk	397	6												Regular Maintenance	No
CO-600_N35	CO-600	N35	590	6												Regular Maintenance	No
CO-601_W670	CO-601	W670	127	8												Regular Maintenance	No
CO-602_Unk	CO-602	Unk	34	4												Regular Maintenance	No
CO-603_Unk	CO-603	Unk	27	4												Regular Maintenance	No
CO-604_Unk	CO-604	Unk	25	4												Regular Maintenance	No
CO-605_Unk	CO-605	Unk	26	4												Regular Maintenance	No
CO-606_Unk	CO-606	Unk	47	4												Regular Maintenance	No
CO-607_Unk	CO-607	Unk	32	4												Regular Maintenance	No
CO-608_Unk	CO-608	Unk	40	4												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
CO-609_Unk	CO-609	Unk	17	4												Regular Maintenance	No
CO-610_Unk	CO-610	Unk	105	3												Regular Maintenance	No
CO-611_CO-610	CO-611	CO-610	97	3												Regular Maintenance	No
CO-612_CO-611	CO-612	CO-611	94	3												Regular Maintenance	No
CO-613_CO-612	CO-613	CO-612	97	3												Regular Maintenance	No
CO-614_CO-613	CO-614	CO-613	98	3												Regular Maintenance	No
CO-615_CO-614	CO-615	CO-614	94	3												Regular Maintenance	No
CO-616_CO-615	CO-616	CO-615	94	3												Regular Maintenance	No
CO-617_CO-616	CO-617	CO-616	101	3												Regular Maintenance	No
CO-618_S114B	CO-618	S114B	233	6												Regular Maintenance	No
CO-619_W685	CO-619	W685	208	8												Regular Maintenance	No
CO-62_S59	CO-62	S59	290	6												Regular Maintenance	No
CO-621_Unk	CO-621	Unk	54	8												Regular Maintenance	No
CO-622_Unk	CO-622	Unk	159	6												Regular Maintenance	No
CO-623_S259	CO-623	S259	222	8												Regular Maintenance	No
CO-625_W696	CO-625	W696	370	8												Regular Maintenance	No
CO-626_W723	CO-626	W723	358	8												Regular Maintenance	No
CO-627_W700	CO-627	W700	186	8												Regular Maintenance	No
CO-628_W695	CO-628	W695	258	8												Regular Maintenance	No
CO-629_W703	CO-629	W703	213	8												Regular Maintenance	No
CO-63_S47H	CO-63	S47H	105	6												Regular Maintenance	No
CO-630_W706	CO-630	W706	172	8												Regular Maintenance	No
CO-634_S253	CO-634	S253	281	6												Regular Maintenance	No
CO-635_W713	CO-635	W713	191	8												Regular Maintenance	No
CO-637_W723	CO-637	W723	124	8												Regular Maintenance	No
CO-638_W724	CO-638	W724	293	8												Regular Maintenance	No
CO-639_W729	CO-639	W729	120	8												Regular Maintenance	No
CO-64_S47H	CO-64	S47H	242	6												Regular Maintenance	No
CO-640_W731	CO-640	W731	181	8												Regular Maintenance	No
CO-641_W734	CO-641	W734	197	8												Regular Maintenance	No
CO-642_W736	CO-642	W736	237	8												Regular Maintenance	No
CO-643_Unk	CO-643	Unk	48	4												Regular Maintenance	No
CO-644_Unk	CO-644	Unk	30	4												Regular Maintenance	No
CO-645_Unk	CO-645	Unk	13	4												Regular Maintenance	No
CO-646_N31	CO-646	N31	255	6												Regular Maintenance	No
CO-647_Unk	CO-647	Unk	14	6												Regular Maintenance	No
CO-65_S47E	CO-65	S47E	82	6												Regular Maintenance	No
CO-654_S252	CO-654	S252	127	6												Regular Maintenance	No
CO-655_S246	CO-655	S246	336	6												Regular Maintenance	No
CO-656_S245	CO-656	S245	291	6												Regular Maintenance	No
CO-657_S233	CO-657	S233	139	6												Regular Maintenance	No
CO-658_S244	CO-658	S244	124	6												Regular Maintenance	No
CO-659_S229	CO-659	S229	309	6												Regular Maintenance	No
CO-66_W100	CO-66	W100	79	6												Regular Maintenance	No
CO-660_Unk	CO-660	Unk	30	6												Regular Maintenance	No
CO-661_Unk	CO-661	Unk	19	6												Regular Maintenance	No
CO-662_Unk	CO-662	Unk	69	4												Regular Maintenance	No
CO-663_CO-662	CO-663	CO-662	52	4												Regular Maintenance	No
CO-664_Unk	CO-664	Unk	69	4												Regular Maintenance	No
CO-665_CO-664	CO-665	CO-664	52	4												Regular Maintenance	No
CO-666_Unk	CO-666	Unk	72	4												Regular Maintenance	No
CO-667_CO-666	CO-667	CO-666	52	4												Regular Maintenance	No
CO-669_W761	CO-669	W761	137	6												Regular Maintenance	No
CO-670_W765	CO-670	W765	126	6												Regular Maintenance	No
CO-676_W774	CO-676	W774	147	8												Regular Maintenance	No
CO-677_W681	CO-677	W681	335	8												Regular Maintenance	No
CO-678_W774	CO-678	W774	117	8												Regular Maintenance	No
CO-683_W786	CO-683	W786	218	6												Regular Maintenance	No
CO-684_W787	CO-684	W787	219	6												Regular Maintenance	No
CO-685_W788	CO-685	W788	214	6												Regular Maintenance	No
CO-686_W789	CO-686	W789	85	6												Regular Maintenance	No
CO-687_W790	CO-687	W790	119	6												Regular Maintenance	No
CO-688_W795	CO-688	W795	133	6												Regular Maintenance	No
CO-69_S45D	CO-69	S45D	312	6												Regular Maintenance	No
CO-690_W805	CO-690	W805	157	8												Regular Maintenance	No
CO-691_W811	CO-691	W811	217	6												Regular Maintenance	No
CO-692_W812	CO-692	W812	125	6												Regular Maintenance	No
CO-693_W809	CO-693	W809	146	6												Regular Maintenance	No
CO-694_W812	CO-694	W812	192	6												Regular Maintenance	No
CO-695_W755	CO-695	W755	107	6												Regular Maintenance	No
CO-696_S249	CO-696	S249	359	6												Regular Maintenance	No
CO-698_W817	CO-698	W817	135	8												Regular Maintenance	No
CO-699_W824	CO-699	W824	176	8												Regular Maintenance	No
CO-70_S47C	CO-70	S47C	259	6												Regular Maintenance	No
CO-700_W828	CO-700	W828	123	8												Regular Maintenance	No
CO-701_W835	CO-701	W835	203	6												Regular Maintenance	No
CO-702_W840	CO-702	W840	142	8												Regular Maintenance	No
CO-703_W847	CO-703	W847	92	8												Regular Maintenance	No
CO-704_W857	CO-704	W857	147	8												Regular Maintenance	No
CO-705_W857	CO-705	W857	140	8												Regular Maintenance	No
CO-706_W836	CO-706	W836	300	6												Regular Maintenance	No
CO-707_W859	CO-707	W859	78	6												Regular Maintenance	No
CO-708_W860	CO-708	W860	78	6												Regular Maintenance	No
CO-709_W863	CO-709	W863	115	8												Regular Maintenance	No
CO-71_S47B	CO-71	S47B	63	6												Regular Maintenance	No
CO-710_W863	CO-710	W863	107	8												Regular Maintenance	No
CO-711_W864	CO-711	W864	117	8												Regular Maintenance	No
CO-712_W865	CO-712	W865	77	8												Regular Maintenance	No
CO-713_W866	CO-713	W866	139	8												Regular Maintenance	No
CO-714_W877	CO-714	W877	137	8												Regular Maintenance	No
CO-715_W881	CO-715	W881	76	8												Regular Maintenance	No
CO-716_W884	CO-716	W884	150	8												Regular Maintenance	No
CO-717_Unk	CO-717	Unk	32	8												Regular Maintenance	No
CO-719_W889	CO-719	W889	203	8												Regular Maintenance	No
CO-72_S47B	CO-72	S47B	353	6												Regular Maintenance	No
CO-720_W893	CO-720	W893	83	8												Regular Maintenance	No
CO-721_W894	CO-721	W894	212	8												Regular Maintenance	No
CO-722_W894	CO-722	W894	215	8												Regular Maintenance	No
CO-723_W896	CO-723	W896	129	8												Regular Maintenance	No
CO-724_W896	CO-724	W896	205	8												Regular Maintenance	No
CO-725_W898	CO-725	W898	130	8												Regular Maintenance	No
CO-726_W901	CO-726	W901	228	8												Regular Maintenance	No
CO-727_W901	CO-727	W901	167	8												Regular Maintenance	No
CO-728_W903	CO-728	W903	141	8												Regular Maintenance	No
CO-729_W895	CO-729	W895	405	8												Regular Maintenance	No
CO-73_W101	CO-73	W101	108	6												Regular Maintenance	No
CO-731_W907	CO-731	W907	124	8												Regular Maintenance	No
CO-732_W907	CO-732	W907	150	8												Regular Maintenance	No
CO-733_W910	CO-733	W910	180	8												Regular Maintenance	No
CO-734_W911	CO-734	W911	155	8												Regular Maintenance	No
CO-735_W916	CO-735	W916	241	8												Regular Maintenance	No
CO-736_W919	CO-736	W919	316	8												Regular Maintenance	No
CO-737_W922	CO-737	W922	219	8												Regular Maintenance	No
CO-738_S164	CO-738	S164	93	6												Regular Maintenance	No
CO-74_W101	CO-74	W101	99	6												Regular Maintenance	No
CO-740_N23N	CO-740	N23N	255	8												Regular Maintenance	No
CO-75_S44C	CO-75	S44C	212	6												Regular Maintenance	No
CO-76_W102	CO-76	W102	238	6												Regular Maintenance	No
CO-77_S44B	CO-77	S44B	321	6												Regular Maintenance	No
CO-78_S44A	CO-78	S44A	207	6												Regular Maintenance	No
CO-79_S43C	CO-79	S43C	324	6												Regular Maintenance	No
CO-80_S46C	CO-80	S46C	127	6												Regular Maintenance	No
CO-81_W104	CO-81	W104	18	6												Regular Maintenance	No
CO-82_W105	CO-82	W105	73	8												Regular Maintenance	No
CO-83_W93	CO-83	W93	211	6												Regular Maintenance	No
CO-84_W91	CO-84	W91	207	6												Regular Maintenance	No
CO-85_W107	CO-85	W107	183	6												Regular Maintenance	No
CO-86_W107	CO-86	W107	141	6												Regular Maintenance	No
CO-88_S62C	CO-88	S62C	239	6												Regular Maintenance	No
CO-89_W113	CO-89	W113	138	8												Regular Maintenance	No
CO-90_W114	CO-90	W114	92	8												Regular Maintenance	No
CO-91_W124	CO-91	W124	99	8												Regular Maintenance	No
CO-92_Unk	CO-92	Unk	10	8												Regular Maintenance	No
CO-93_Unk	CO-93	Unk	33	8												Regular Maintenance	No
CO-94_W221	CO-94	W221	198	8												Regular Maintenance	No
CO-96_W128	CO-96	W128	132	8												Regular Maintenance	No
CO-97_W131	CO-97	W131	75	8												Regular Maintenance	No
CO-98_W134	CO-98	W134	100	8												Regular Maintenance	No
CO-99_W133	CO-99	W133	169	8												Regular Maintenance	No
N1_W828	N1	W828	315	10												Regular Maintenance	No
N10_N9C	N10	N9C	49	8												Regular Maintenance	No
N10B_N10D	N10B	N10D	85	6												Regular Maintenance	No
N10C_N10B	N10C	N10B	327	6												Regular Maintenance	No
N13_Unk	N13	Unk	145	6												Regular Maintenance	No
N13A_W57	N13A	W57	148	6												Regular Maintenance	No
N14_N13A	N14	N13A	291	6												Regular Maintenance	No
N14B_N14	N14B	N14	323	6												Regular Maintenance	No
N15_N6	N15	N6	202	6												Regular Maintenance	No
N17_Unk	N17	Unk	424	8												Regular Maintenance	No
N171_N17H	N171	N17H	104	6												Regular Maintenance	No
N17A_N17B	N17A	N17B	25	6												Regular Maintenance	No
N17A_W474	N17A	W474	285	8												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
N17C_W483	N17C	W483	83	6												Regular Maintenance	No
N17D_N17C	N17D	N17C	335	6												Regular Maintenance	No
N17E_N17D	N17E	N17D	352	6												Regular Maintenance	No
N17F_Unk	N17F	Unk	322	6												Regular Maintenance	No
N17G_Unk	N17G	Unk	376	6												Regular Maintenance	No
N17H_N17G	N17H	N17G	380	6												Regular Maintenance	No
N1A_Unk	N1A	Unk	21	18												Regular Maintenance	No
N1B_N1A	N1B	N1A	15	24												Regular Maintenance	No
N1C_N1B	N1C	N1B	255	24												Regular Maintenance	No
N2_N1	N2	N1	250	10												Regular Maintenance	No
N20_Unk	N20	Unk	84	10												Regular Maintenance	No
N20A_N20B	N20A	N20B	82	10												Regular Maintenance	No
N20B_N20	N20B	N20	433	10												Regular Maintenance	No
N20C_W486	N20C	W486	632	6												Regular Maintenance	No
N20D_N20A	N20D	N20A	290	10												Regular Maintenance	No
N20E_CO-428	N20E	CO-428	309	6												Regular Maintenance	No
N20F_N20E	N20F	N20E	163	6												Regular Maintenance	No
N21_N20D	N21	N20D	235	10												Regular Maintenance	No
N21B_N21	N21B	N21	25	10												Regular Maintenance	No
N22C_W666	N22C	W666	244	6												Regular Maintenance	No
N22D_N22C	N22D	N22C	368	6												Regular Maintenance	No
N22E_N22J	N22E	N22J	278	6												Regular Maintenance	No
N22F_N22C	N22F	N22C	445	6												Regular Maintenance	No
N22I_N22H	N22I	N22H	301	6												Regular Maintenance	No
N22L_N22E	N22L	N22E	254	6												Regular Maintenance	No
N23_W667	N23	W667	553	10												Regular Maintenance	No
N230_N23P	N230	N23P	205	6												Regular Maintenance	No
N23A_N23	N23A	N23	335	10												Regular Maintenance	No
N23C_N23F	N23C	N23F	96	8												Regular Maintenance	No
N23D_N23A	N23D	N23A	264	10												Regular Maintenance	No
N23E_N23	N23E	N23	26	8												Regular Maintenance	No
N23F_N23E	N23F	N23E	269	8												Regular Maintenance	No
N23H_N23C	N23H	N23C	228	8												Regular Maintenance	No
N23I_N23H	N23I	N23H	112	8												Regular Maintenance	No
N23J_N23I	N23J	N23I	96	8												Regular Maintenance	No
N23K_N23J	N23K	N23J	205	8												Regular Maintenance	No
N23L_N23K	N23L	N23K	197	8												Regular Maintenance	No
N23M_N23L	N23M	N23L	344	8												Regular Maintenance	No
N23N_N23M	N23N	N23M	38	6												Regular Maintenance	No
N23N_N23P	N23N	N23P	349	6												Regular Maintenance	No
N23R_N230	N23R	N230	349	6												Regular Maintenance	No
N23S_N23K	N23S	N23K	338	6												Regular Maintenance	No
N23T_N23S	N23T	N23S	87	6												Regular Maintenance	No
N23U_N23T	N23U	N23T	183	6												Regular Maintenance	No
N23V_N23U	N23V	N23U	170	6												Regular Maintenance	No
N23W_N23T	N23W	N23T	94	6												Regular Maintenance	No
N23X_N23W	N23X	N23W	264	6												Regular Maintenance	No
N24_Unk	N24	Unk	123	10												Regular Maintenance	No
N24A_N24	N24A	N24	326	10												Regular Maintenance	No
N25_W669	N25	W669	202	10												Regular Maintenance	No
N27_W24	N27	W24	83	6												Regular Maintenance	No
N29_W16	N29	W16	466	6												Regular Maintenance	No
N2A_N2	N2A	N2	308	10												Regular Maintenance	No
N2B_N2A	N2B	N2A	104	15												Regular Maintenance	No
N2C_N2B	N2C	N2B	411	6												Regular Maintenance	No
N2D_W377	N2D	W377	23	15												Regular Maintenance	No
N2E_N2D	N2E	N2D	330	6												Regular Maintenance	No
N2F_N2D	N2F	N2D	237	15												Regular Maintenance	No
N2G_N2F	N2G	N2F	213	6												Regular Maintenance	No
N2H_N2G	N2H	N2G	67	6												Regular Maintenance	No
N2I_N2H	N2I	N2H	363	6												Regular Maintenance	No
N3_N2F	N3	N2F	193	15												Regular Maintenance	No
N30_Unk	N30	Unk	167	6												Regular Maintenance	No
N30_W739	N30	W739	37	12												Regular Maintenance	No
N306_Unk	N306	Unk	70	8												Regular Maintenance	No
N30A_N30	N30A	N30	363	6												Regular Maintenance	No
N30D_W749	N30D	W749	145	6												Regular Maintenance	No
N30E_N30D	N30E	N30D	59	6												Regular Maintenance	No
N31_N30	N31	N30	396	6												Regular Maintenance	No
N32_N32A	N32	N32A	57	10												Regular Maintenance	No
N32A_N25	N32A	N25	658	10												Regular Maintenance	No
N32B_N32	N32B	N32	474	10												Regular Maintenance	No
N32C_N32B	N32C	N32B	313	6												Regular Maintenance	No
N33_Unk	N33	Unk	197	10												Regular Maintenance	No
N33A_W2	N33A	W2	146	10												Regular Maintenance	No
N33B_N33A	N33B	N33A	339	10												Regular Maintenance	No
N33C_N33B	N33C	N33B	248	6												Regular Maintenance	No
N33D_N33C	N33D	N33C	262	6												Regular Maintenance	No
N34_N33B	N34	N33B	75	10												Regular Maintenance	No
N34A_N34	N34A	N34	496	6												Regular Maintenance	No
N35_N34	N35	N34	286	6												Regular Maintenance	No
N36_N34A	N36	N34A	94	6												Regular Maintenance	No
N37_N36	N37	N36	591	6												Regular Maintenance	No
N37C_W1	N37C	W1	424	6												Regular Maintenance	No
N37D_N37C	N37D	N37C	64	8												Regular Maintenance	No
N38_N3A	N38	N3A	309	6												Regular Maintenance	No
N39_Unk	N39	Unk	286	10												Regular Maintenance	No
N3A_N3	N3A	N3	77	15												Regular Maintenance	No
N3C_N38	N3C	N38	167	6												Regular Maintenance	No
N4_N3A	N4	N3A	513	15												Regular Maintenance	No
N40B_N40A	N40B	N40A	300	8												Regular Maintenance	No
N40C_N40B	N40C	N40B	236	8												Regular Maintenance	No
N40D_N40C	N40D	N40C	180	8												Regular Maintenance	No
N40E_N40D	N40E	N40D	242	6												Regular Maintenance	No
N40F_N40E	N40F	N40E	320	6												Regular Maintenance	No
N40G_N40F	N40G	N40F	317	6												Regular Maintenance	No
N40H_N40G	N40H	N40G	124	6												Regular Maintenance	No
N40I_N40H	N40I	N40H	68	6												Regular Maintenance	No
N40J_N40D	N40J	N40D	298	8												Regular Maintenance	No
N40K_N40J	N40K	N40J	280	8												Regular Maintenance	No
N40L_N40K	N40L	N40K	122	8												Regular Maintenance	No
N40M_N40L	N40M	N40L	79	8												Regular Maintenance	No
N40N_N40M	N40N	N40M	167	8												Regular Maintenance	No
N40P_N40N	N40P	N40N	241	8												Regular Maintenance	No
N40Q_N40P	N40Q	N40P	250	6												Regular Maintenance	No
N40R_N40Q	N40R	N40Q	261	6												Regular Maintenance	No
N40S_N40R	N40S	N40R	249	6												Regular Maintenance	No
N40T_N40S	N40T	N40S	346	6												Regular Maintenance	No
N40U_N40P	N40U	N40P	188	8												Regular Maintenance	No
N41_N41A	N41	N41A	82	6												Regular Maintenance	No
N41_W511	N41	W511	19	12												Regular Maintenance	No
N41D_Unk	N41D	Unk	98	6												Regular Maintenance	No
N42_N41	N42	N41	360	6												Regular Maintenance	No
N45F_N45E	N45F	N45E	234	8												Regular Maintenance	No
N45G_N45F	N45G	N45F	267	8												Regular Maintenance	No
N45I_N45H	N45I	N45H	202	8												Regular Maintenance	No
N45J_N45F	N45J	N45F	142	8												Regular Maintenance	No
N45K_N45J	N45K	N45J	251	8												Regular Maintenance	No
N47_N46	N47	N46	315	6												Regular Maintenance	No
N47A_W522	N47A	W522	86	6												Regular Maintenance	No
N47B_N47A	N47B	N47A	84	6												Regular Maintenance	No
N47C_Unk	N47C	Unk	152	6												Regular Maintenance	No
N47D_N47B	N47D	N47B	109	6												Regular Maintenance	No
N47E_N47D	N47E	N47D	265	6												Regular Maintenance	No
N47F_N47E	N47F	N47E	248	6												Regular Maintenance	No
N47G_N47D	N47G	N47D	184	6												Regular Maintenance	No
N47H_N47G	N47H	N47G	234	6												Regular Maintenance	No
N47I_N47H	N47I	N47H	276	6												Regular Maintenance	No
N47J_N47I	N47J	N47I	244	6												Regular Maintenance	No
N47K_N47H	N47K	N47H	58	6												Regular Maintenance	No
N47L_Unk	N47L	Unk	25	6												Regular Maintenance	No
N47M_N47L	N47M	N47L	53	6												Regular Maintenance	No
N48_N47	N48	N47	452	6												Regular Maintenance	No
N49_N48	N49	N48	439	6												Regular Maintenance	No
N49A_Unk	N49A	Unk	246	6												Regular Maintenance	No
N49B_N49A	N49B	N49A	323	6												Regular Maintenance	No
N49C_N49B	N49C	N49B	364	6												Regular Maintenance	No
N49D_N49C	N49D	N49C	443	6												Regular Maintenance	No
N49E_N49D	N49E	N49D	198	6												Regular Maintenance	No
N4A_N4	N4A	N4	603	6												Regular Maintenance	No
N5_W485	N5	W485	46	15												Regular Maintenance	No
N50_N49A	N50	N49A	32	6												Regular Maintenance	No
N50A_N50	N50A	N50	217	6												Regular Maintenance	No
N6_N5	N6	N5	37	10												Regular Maintenance	No
N7A_Unk	N7A	Unk	59	6												Regular Maintenance	No
N7B_CO-414	N7B	CO-414	95	6												Regular Maintenance	No
N7B_Unk	N7B	Unk	201	8												Regular Maintenance	No
N7B_W503	N7B	W503	133	8												Regular Maintenance	No
N9A_N9	N9A	N9	159	8												Regular Maintenance	No
N9B_N9A	N9B	N9A	313	6												Regular Maintenance	No
N9C_N9A	N9C	N9A	444	8												Regular Maintenance	No
S10_S9	S10	S9	194	12												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
S100_S93	S100	S93	166	6												Regular Maintenance	No
S101_Unk	S101	Unk	109	6												Regular Maintenance	No
S102_S101	S102	S101	104	6												Regular Maintenance	No
S103_S102	S103	S102	135	6												Regular Maintenance	No
S104_S103	S104	S103	157	8												Regular Maintenance	No
S104A_S104	S104A	S104	124	8												Regular Maintenance	No
S104B_S104A	S104B	S104A	67	8												Regular Maintenance	No
S105_S104B	S105	S104B	76	8												Regular Maintenance	No
S105A_S105	S105A	S105	82	6												Regular Maintenance	No
S106_S105	S106	S105	112	8												Regular Maintenance	No
S107_S106	S107	S106	209	6												Regular Maintenance	No
S108_Unk	S108	Unk	253	6												Regular Maintenance	No
S108A_S108	S108A	S108	159	6												Regular Maintenance	No
S108B_S108A	S108B	S108A	88	6												Regular Maintenance	No
S108C_S108B	S108C	S108B	42	6												Regular Maintenance	No
S109_S108A	S109	S108A	114	6												Regular Maintenance	No
S109A_S109	S109A	S109	101	6												Regular Maintenance	No
S109B_S109A	S109B	S109A	40	6												Regular Maintenance	No
S109C_S109A	S109C	S109A	63	6												Regular Maintenance	No
S109D_S109	S109D	S109	289	6												Regular Maintenance	No
S110_S109C	S110	S109C	348	6												Regular Maintenance	No
S110A_S110	S110A	S110	137	6												Regular Maintenance	No
S111_S110	S111	S110	268	6												Regular Maintenance	No
S112_S111	S112	S111	104	6												Regular Maintenance	No
S112D_S112C	S112D	S112C	83	6												Regular Maintenance	No
S112E_S112D	S112E	S112D	43	6												Regular Maintenance	No
S112F_W561	S112F	W561	164	6												Regular Maintenance	No
S112G_W562	S112G	W562	221	6												Regular Maintenance	No
S112H_S112G	S112H	S112G	173	6												Regular Maintenance	No
S112J_S112T	S112J	S112T	383	6												Regular Maintenance	No
S112K_S112J	S112K	S112J	398	6												Regular Maintenance	No
S112L_S112H	S112L	S112H	422	6												Regular Maintenance	No
S112M_S112L	S112M	S112L	407	6												Regular Maintenance	No
S112N_S112M	S112N	S112M	391	6												Regular Maintenance	No
S112T_S112H	S112T	S112H	257	6												Regular Maintenance	No
S113_S112	S113	S112	140	6												Regular Maintenance	No
S114_S113	S114	S113	235	6												Regular Maintenance	No
S114A_S114	S114A	S114	309	6												Regular Maintenance	No
S114B_S114A	S114B	S114A	152	6												Regular Maintenance	No
S117_S118	S117	S118	186	6												Regular Maintenance	No
S11A_S11	S11A	S11	94	8												Regular Maintenance	No
S11B_S11A	S11B	S11A	256	8												Regular Maintenance	No
S11C_S11B	S11C	S11B	121	6												Regular Maintenance	No
S11D_S11C	S11D	S11C	285	6												Regular Maintenance	No
S11E_S11D	S11E	S11D	258	6												Regular Maintenance	No
S121_S121C	S121	S121C	162	6												Regular Maintenance	No
S121A_S121	S121A	S121	54	6												Regular Maintenance	No
S121B_S121A	S121B	S121A	62	6												Regular Maintenance	No
S121C_S122	S121C	S122	68	6												Regular Maintenance	No
S122_S106	S122	S106	199	6												Regular Maintenance	No
S122A_S122	S122A	S122	49	6												Regular Maintenance	No
S123_S53A	S123	S53A	246	12												Regular Maintenance	No
S123A_S123	S123A	S123	102	12												Regular Maintenance	No
S123B_S123A	S123B	S123A	120	6												Regular Maintenance	No
S123C_S123B	S123C	S123B	212	6												Regular Maintenance	No
S123D_S123C	S123D	S123C	348	6												Regular Maintenance	No
S123E_S123D	S123E	S123D	345	6												Regular Maintenance	No
S124_W201	S124	W201	553	12												Regular Maintenance	No
S125_Unk	S125	Unk	24	12												Regular Maintenance	No
S126_S125	S126	S125	323	6												Regular Maintenance	No
S127_Unk	S127	Unk	80	6												Regular Maintenance	No
S128_S125	S128	S125	242	12												Regular Maintenance	No
S129_S128	S129	S128	348	12												Regular Maintenance	No
S13_S12	S13	S12	677	8												Regular Maintenance	No
S130F_Unk	S130F	Unk	225	6												Regular Maintenance	No
S130J_Unk	S130J	Unk	191	6												Regular Maintenance	No
S130K_S130J	S130K	S130J	251	6												Regular Maintenance	No
S130L_S130J	S130L	S130J	211	6												Regular Maintenance	No
S130M_S130L	S130M	S130L	302	6												Regular Maintenance	No
S130N_S130M	S130N	S130M	228	6												Regular Maintenance	No
S130P_S130N	S130P	S130N	108	6												Regular Maintenance	No
S13A_S13	S13A	S13	221	6												Regular Maintenance	No
S13B_S13	S13B	S13	256	6												Regular Maintenance	No
S13C_S13B	S13C	S13B	166	6												Regular Maintenance	No
S13D_S13B	S13D	S13B	181	6												Regular Maintenance	No
S14_S13	S14	S13	472	8												Regular Maintenance	No
S143_S128	S143	S128	267	6												Regular Maintenance	No
S144_S143	S144	S143	143	6												Regular Maintenance	No
S145_S144	S145	S144	304	6												Regular Maintenance	No
S146_S145	S146	S145	213	6												Regular Maintenance	No
S147_S146	S147	S146	170	6												Regular Maintenance	No
S148_S147	S148	S147	218	6												Regular Maintenance	No
S149_S150	S149	S150	208	6												Regular Maintenance	No
S15_S14	S15	S14	657	8												Regular Maintenance	No
S150_W193	S150	W193	322	6												Regular Maintenance	No
S153_W192	S153	W192	310	6												Regular Maintenance	No
S154_S153	S154	S153	236	6												Regular Maintenance	No
S155_S154	S155	S154	253	6												Regular Maintenance	No
S156_Unk	S156	Unk	292	6												Regular Maintenance	No
S157_S154	S157	S154	295	6												Regular Maintenance	No
S158_S157	S158	S157	286	6												Regular Maintenance	No
S16_S382	S16	S382	304	8												Regular Maintenance	No
S160_S158	S160	S158	260	6												Regular Maintenance	No
S161_S160	S161	S160	172	6												Regular Maintenance	No
S162_S161	S162	S161	193	6												Regular Maintenance	No
S163_S162	S163	S162	101	6												Regular Maintenance	No
S164_S165	S164	S165	93	6												Regular Maintenance	No
S165_S166	S165	S166	210	6												Regular Maintenance	No
S166_S167	S166	S167	338	6												Regular Maintenance	No
S167_S168	S167	S168	221	6												Regular Maintenance	No
S168_S169	S168	S169	270	6												Regular Maintenance	No
S169_S170	S169	S170	296	6												Regular Maintenance	No
S17_S16	S17	S16	30	8												Regular Maintenance	No
S17_S381	S17	S381	303	18												Regular Maintenance	No
S170_S171	S170	S171	193	6												Regular Maintenance	No
S171_Unk	S171	Unk	76	6												Regular Maintenance	No
S172_S123E	S172	S123E	345	6												Regular Maintenance	No
S173_S174	S173	S174	205	6												Regular Maintenance	No
S173A_S173	S173A	S173	130	6												Regular Maintenance	No
S173B_S173A	S173B	S173A	109	6												Regular Maintenance	No
S174_S175	S174	S175	265	6												Regular Maintenance	No
S175_S176	S175	S176	257	6												Regular Maintenance	No
S176_S144	S176	S144	234	6												Regular Maintenance	No
S178_S177	S178	S177	58	21												Regular Maintenance	No
S179_S178	S179	S178	128	21												Regular Maintenance	No
S18_Unk	S18	Unk	484	6												Regular Maintenance	No
S180_S179	S180	S179	65	30												Regular Maintenance	No
S19C_W337	S19C	W337	54	6												Regular Maintenance	No
S19F_W337	S19F	W337	44	6												Regular Maintenance	No
S1A_Unk	S1A	Unk	185	20												Regular Maintenance	No
S202B_S202A	S202B	S202A	71	6												Regular Maintenance	No
S205_S204	S205	S204	103	24												Regular Maintenance	No
S206_S205	S206	S205	204	24												Regular Maintenance	No
S207_S206	S207	S206	222	24												Regular Maintenance	No
S208_W447	S208	W447	123	24												Regular Maintenance	No
S209_W449	S209	W449	360	18												Regular Maintenance	No
S20B_S20	S20B	S20	35	12												Regular Maintenance	No
S211_W610	S211	W610	125	18												Regular Maintenance	No
S211B_S211	S211B	S211	494	8												Regular Maintenance	No
S211C_S211B	S211C	S211B	240	6												Regular Maintenance	No
S211D_S211B	S211D	S211B	262	6												Regular Maintenance	No
S212_S211	S212	S211	466	18												Regular Maintenance	No
S212A_S212	S212A	S212	487	8												Regular Maintenance	No
S213_S212	S213	S212	228	18												Regular Maintenance	No
S214_S213	S214	S213	323	12												Regular Maintenance	No
S219_S218	S219	S218	280	6												Regular Maintenance	No
S22_S21	S22	S21	336	12												Regular Maintenance	No
S227_S226	S227	S226	344	6												Regular Maintenance	No
S22A_S22	S22A	S22	262	6												Regular Maintenance	No
S22D_W342	S22D	W342	47	6												Regular Maintenance	No
S22E_Unk	S22E	Unk	122	6												Regular Maintenance	No
S22G_S22E	S22G	S22E	136	6												Regular Maintenance	No
S22H_S22G	S22H	S22G	125	6												Regular Maintenance	No
S23_Unk	S23	Unk	151	12												Regular Maintenance	No
S236_S235	S236	S235	345	6												Regular Maintenance	No
S237_S236	S237	S236	176	6												Regular Maintenance	No
S238_S237	S238	S237	151	6												Regular Maintenance	No
S239A_S239	S239A	S239	87	12												Regular Maintenance	No
S239B_S239A	S239B	S239A	334	12												Regular Maintenance	No
S23A_S23	S23A	S23	368	8												Regular Maintenance	No
S23B_S23A	S23B	S23A	123	6												Regular Maintenance	No
S23C_S23B	S23C	S23B	36	6												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
S23D_S23A	S23D	S23A	155	6												Regular Maintenance	No
S23E_S23D	S23E	S23D	112	6												Regular Maintenance	No
S23F_S23D	S23F	S23D	210	6												Regular Maintenance	No
S23G_S23F	S23G	S23F	138	6												Regular Maintenance	No
S23H_S23G	S23H	S23G	58	6												Regular Maintenance	No
S23I_S23B	S23I	S23B	27	6												Regular Maintenance	No
S240_S239	S240	S239	136	8												Regular Maintenance	No
S240A_S240	S240A	S240	145	6												Regular Maintenance	No
S240B_S240A	S240B	S240A	152	6												Regular Maintenance	No
S241_S240	S241	S240	383	8												Regular Maintenance	No
S242_S241	S242	S241	189	8												Regular Maintenance	No
S243_S242	S243	S242	255	6												Regular Maintenance	No
S244_S243	S244	S243	328	6												Regular Maintenance	No
S245_S243	S245	S243	257	6												Regular Maintenance	No
S246_S245	S246	S245	273	6												Regular Maintenance	No
S247_S246	S247	S246	262	6												Regular Maintenance	No
S249_Unk	S249	Unk	282	6												Regular Maintenance	No
S25_S25A	S25	S25A	16	10												Regular Maintenance	No
S250_S247	S250	S247	201	6												Regular Maintenance	No
S251_S250	S251	S250	202	6												Regular Maintenance	No
S252_S251	S252	S251	103	6												Regular Maintenance	No
S253_S252	S253	S252	148	6												Regular Maintenance	No
S255_S213	S255	S213	221	12												Regular Maintenance	No
S256_W609	S256	W609	348	10												Regular Maintenance	No
S257_W607	S257	W607	257	10												Regular Maintenance	No
S259_W689	S259	W689	272	10												Regular Maintenance	No
S25B_S25A	S25B	S25A	17	10												Regular Maintenance	No
S26_W435	S26	W435	206	10												Regular Maintenance	No
S260_S259	S260	S259	316	10												Regular Maintenance	No
S261_S260	S261	S260	302	10												Regular Maintenance	No
S262_W687	S262	W687	247	10												Regular Maintenance	No
S263_S262	S263	S262	209	10												Regular Maintenance	No
S264_W590	S264	W590	203	6												Regular Maintenance	No
S265_S264	S265	S264	95	6												Regular Maintenance	No
S266_S265	S266	S265	268	6												Regular Maintenance	No
S27_S26	S27	S26	423	6												Regular Maintenance	No
S271_S270	S271	S270	299	8												Regular Maintenance	No
S273_S272	S273	S272	291	8												Regular Maintenance	No
S274_S273	S274	S273	317	8												Regular Maintenance	No
S275_S274	S275	S274	215	6												Regular Maintenance	No
S276_S275	S276	S275	338	6												Regular Maintenance	No
S277_S276	S277	S276	222	6												Regular Maintenance	No
S278_S274	S278	S274	313	6												Regular Maintenance	No
S279_S278	S279	S278	395	6												Regular Maintenance	No
S28_S27	S28	S27	68	6												Regular Maintenance	No
S29_S28	S29	S28	455	6												Regular Maintenance	No
S30_S29	S30	S29	467	6												Regular Maintenance	No
S300_S255	S300	S255	262	12												Regular Maintenance	No
S306_S305	S306	S305	386	12												Regular Maintenance	No
S308_W826	S308	W826	403	33												Regular Maintenance	No
S309_S308	S309	S308	459	33												Regular Maintenance	No
S30A_S30	S30A	S30	155	6												Regular Maintenance	No
S31_S21	S31	S21	22	8												Regular Maintenance	No
S310_S309	S310	S309	246	27												Regular Maintenance	No
S311_S310	S311	S310	76	27												Regular Maintenance	No
S312_S311	S312	S311	336	8												Regular Maintenance	No
S312A_Unk	S312A	Unk	163	8												Regular Maintenance	No
S313_S312	S313	S312	324	8												Regular Maintenance	No
S314_Unk	S314	Unk	204	8												Regular Maintenance	No
S315_S314	S315	S314	364	8												Regular Maintenance	No
S316_S311	S316	S311	168	27												Regular Maintenance	No
S318_W121	S318	W121	318	27												Regular Maintenance	No
S319_S318	S319	S318	329	27												Regular Maintenance	No
S320_S319	S320	S319	352	27												Regular Maintenance	No
S322_W110	S322	W110	435	27												Regular Maintenance	No
S323_S322	S323	S322	304	27												Regular Maintenance	No
S324_S323	S324	S323	283	27												Regular Maintenance	No
S325_S324	S325	S324	214	27												Regular Maintenance	No
S327_Unk	S327	Unk	74	8												Regular Maintenance	No
S328_Unk	S328	Unk	168	8												Regular Maintenance	No
S329_W76	S329	W76	276	8												Regular Maintenance	No
S330_W77	S330	W77	413	8												Regular Maintenance	No
S331_Unk	S331	Unk	20	8												Regular Maintenance	No
S332_S327	S332	S327	172	24												Regular Maintenance	No
S339C_S339B	S339C	S339B	153	10												Regular Maintenance	No
S339D_W159	S339D	W159	113	8												Regular Maintenance	No
S339E_Unk	S339E	Unk	63	4												Regular Maintenance	No
S339F_Unk	S339F	Unk	120	10												Regular Maintenance	No
S339H_Unk	S339H	Unk	248	10												Regular Maintenance	No
S34_S33	S34	S33	362	6												Regular Maintenance	No
S340_S338	S340	S338	175	21												Regular Maintenance	No
S341_S340	S341	S340	441	21												Regular Maintenance	No
S342_S341	S342	S341	260	24												Regular Maintenance	No
S343_S342	S343	S342	279	24												Regular Maintenance	No
S344_S343	S344	S343	319	10												Regular Maintenance	No
S345_S344	S345	S344	323	10												Regular Maintenance	No
S346_S345	S346	S345	35	10												Regular Maintenance	No
S347_S346	S347	S346	507	10												Regular Maintenance	No
S348_S347	S348	S347	508	10												Regular Maintenance	No
S349_S348	S349	S348	363	10												Regular Maintenance	No
S35_S34	S35	S34	96	6												Regular Maintenance	No
S350_S349	S350	S349	162	8												Regular Maintenance	No
S351_S350	S351	S350	256	8												Regular Maintenance	No
S352_S351	S352	S351	253	8												Regular Maintenance	No
S353_S352	S353	S352	311	8												Regular Maintenance	No
S354_S353	S354	S353	449	8												Regular Maintenance	No
S355_S354	S355	S354	168	8												Regular Maintenance	No
S356_S355	S356	S355	290	8												Regular Maintenance	No
S357_S345	S357	S345	292	10												Regular Maintenance	No
S358_S357	S358	S357	43	10												Regular Maintenance	No
S359_S358	S359	S358	148	10												Regular Maintenance	No
S35A_S35	S35A	S35	118	6												Regular Maintenance	No
S35B_S35A	S35B	S35A	277	6												Regular Maintenance	No
S36_W335	S36	W335	101	6												Regular Maintenance	No
S360_S359	S360	S359	42	8												Regular Maintenance	No
S361_S360	S361	S360	524	8												Regular Maintenance	No
S362_S361	S362	S361	401	8												Regular Maintenance	No
S362_Unk	S362	Unk	17	8												Regular Maintenance	No
S363_S343	S363	S343	380	15												Regular Maintenance	No
S365_Unk	S365	Unk	183	15												Regular Maintenance	No
S366_S365	S366	S365	218	15												Regular Maintenance	No
S367_S366	S367	S366	198	15												Regular Maintenance	No
S368_S367	S368	S367	226	8												Regular Maintenance	No
S368A_S368	S368A	S368	32	6												Regular Maintenance	No
S369_S368	S369	S368	215	8												Regular Maintenance	No
S37_Unk	S37	Unk	93	6												Regular Maintenance	No
S370_S369	S370	S369	168	8												Regular Maintenance	No
S378_Unk	S378	Unk	233	18												Regular Maintenance	No
S379_S378	S379	S378	378	18												Regular Maintenance	No
S379A_S379	S379A	S379	93	18												Regular Maintenance	No
S38_S37	S38	S37	89	6												Regular Maintenance	No
S381_W285	S381	W285	159	18												Regular Maintenance	No
S382_S381	S382	S381	26	8												Regular Maintenance	No
S383_W285	S383	W285	178	10												Regular Maintenance	No
S384_S383	S384	S383	222	10												Regular Maintenance	No
S385_S384	S385	S384	153	10												Regular Maintenance	No
S386_S385	S386	S385	224	6												Regular Maintenance	No
S387_S385	S387	S385	174	10												Regular Maintenance	No
S388_S387	S388	S387	171	10												Regular Maintenance	No
S389_S388	S389	S388	159	10												Regular Maintenance	No
S39_W288	S39	W288	988	14												Regular Maintenance	No
S390_S384	S390	S384	207	8												Regular Maintenance	No
S391_Unk	S391	Unk	196	18												Regular Maintenance	No
S392_S391	S392	S391	337	18												Regular Maintenance	No
S393_S392	S393	S392	139	10												Regular Maintenance	No
S394_S393	S394	S393	239	8												Regular Maintenance	No
S395_S394	S395	S394	226	8												Regular Maintenance	No
S396_S395	S396	S395	155	8												Regular Maintenance	No
S397_S396	S397	S396	138	8												Regular Maintenance	No
S398_S393	S398	S393	315	10												Regular Maintenance	No
S399_S398	S399	S398	176	10												Regular Maintenance	No
S39A_S39	S39A	S39	448	14												Regular Maintenance	No
S40_W142	S40	W142	53	14												Regular Maintenance	No
S400_S399	S400	S399	102	10												Regular Maintenance	No
S401_S400	S401	S400	328	8												Regular Maintenance	No
S402_S400	S402	S400	170	8												Regular Maintenance	No
S403_S402	S403	S402	251	8												Regular Maintenance	No
S404_S393	S404	S393	230	8												Regular Maintenance	No
S405_S404	S405	S404	257	8												Regular Maintenance	No
S406_S405	S406	S405	358	6												Regular Maintenance	No
S407_S392	S407	S392	353	18												Regular Maintenance	No
S408_S407	S408	S407	383	18												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
S409_S408	S409	S408	141	10												Regular Maintenance	No
S41_Unk	S41	Unk	219	14												Regular Maintenance	No
S410_S409	S410	S409	354	10												Regular Maintenance	No
S411_S410	S411	S410	98	10												Regular Maintenance	No
S412_S411	S412	S411	191	10												Regular Maintenance	No
S413_S411	S413	S411	211	6												Regular Maintenance	No
S414_S409	S414	S409	220	8												Regular Maintenance	No
S415_S414	S415	S414	243	8												Regular Maintenance	No
S416_S415	S416	S415	252	8												Regular Maintenance	No
S417_S416	S417	S416	302	8												Regular Maintenance	No
S418_S417	S418	S417	162	8												Regular Maintenance	No
S419_S418	S419	S418	212	6												Regular Maintenance	No
S42_S41	S42	S41	253	14												Regular Maintenance	No
S420_S408	S420	S408	293	18												Regular Maintenance	No
S421_S420	S421	S420	307	10												Regular Maintenance	No
S42A_Unk	S42A	Unk	162	6												Regular Maintenance	No
S42B_W136	S42B	W136	164	6												Regular Maintenance	No
S42C_Unk	S42C	Unk	276	6												Regular Maintenance	No
S43_S42	S43	S42	247	12												Regular Maintenance	No
S43B_S43A	S43B	S43A	176	6												Regular Maintenance	No
S43C_S43A	S43C	S43A	260	12												Regular Maintenance	No
S44_S43C	S44	S43C	197	12												Regular Maintenance	No
S44A_S44	S44A	S44	42	12												Regular Maintenance	No
S44B_S44A	S44B	S44A	244	12												Regular Maintenance	No
S44C_S44B	S44C	S44B	260	12												Regular Maintenance	No
S45_S44C	S45	S44C	160	12												Regular Maintenance	No
S45C_S45A	S45C	S45A	144	6												Regular Maintenance	No
S45D_S45C	S45D	S45C	310	6												Regular Maintenance	No
S46_S45	S46	S45	238	12												Regular Maintenance	No
S46A_S46	S46A	S46	447	12												Regular Maintenance	No
S46B_S46A	S46B	S46A	213	6												Regular Maintenance	No
S46C_S46B	S46C	S46B	207	6												Regular Maintenance	No
S47_S46A	S47	S46A	189	12												Regular Maintenance	No
S47A_S47	S47A	S47	214	12												Regular Maintenance	No
S47B_S47A	S47B	S47A	280	12												Regular Maintenance	No
S47C_S47A	S47C	S47A	122	6												Regular Maintenance	No
S47D_S47C	S47D	S47C	243	6												Regular Maintenance	No
S47E_S47D	S47E	S47D	157	6												Regular Maintenance	No
S47G_S47D	S47G	S47D	157	6												Regular Maintenance	No
S47H_S47G	S47H	S47G	116	6												Regular Maintenance	No
S48_S47B	S48	S47B	145	12												Regular Maintenance	No
S49_Unk	S49	Unk	304	12												Regular Maintenance	No
S49A_S49	S49A	S49	105	12												Regular Maintenance	No
S50_S49A	S50	S49A	83	12												Regular Maintenance	No
S51_S50	S51	S50	92	12												Regular Maintenance	No
S52_S51	S52	S51	97	12												Regular Maintenance	No
S53_S52	S53	S52	422	12												Regular Maintenance	No
S53A_S53	S53A	S53	115	12												Regular Maintenance	No
S53A_S53B	S53A	S53B	164	10												Regular Maintenance	No
S53B_S53C	S53B	S53C	340	10												Regular Maintenance	No
S53C_W99	S53C	W99	310	10												Regular Maintenance	No
S53E_S53F	S53E	S53F	204	10												Regular Maintenance	No
S53F_S53G	S53F	S53G	186	10												Regular Maintenance	No
S53G_S53H	S53G	S53H	292	10												Regular Maintenance	No
S53H_S349	S53H	S349	175	10												Regular Maintenance	No
S54_S49	S54	S49	57	6												Regular Maintenance	No
S54B_S54	S54B	S54	307	6												Regular Maintenance	No
S55_S54B	S55	S54B	201	6												Regular Maintenance	No
S56_S56A	S56	S56A	112	6												Regular Maintenance	No
S57_S56	S57	S56	448	6												Regular Maintenance	No
S58_S57	S58	S57	448	6												Regular Maintenance	No
S59_S58	S59	S58	58	6												Regular Maintenance	No
S60_S59	S60	S59	515	6												Regular Maintenance	No
S60A_S60	S60A	S60	174	6												Regular Maintenance	No
S60B_S60A	S60B	S60A	130	6												Regular Maintenance	No
S60C_S60B	S60C	S60B	160	6												Regular Maintenance	No
S60D_S60C	S60D	S60C	156	6												Regular Maintenance	No
S60E_S60D	S60E	S60D	90	6												Regular Maintenance	No
S60F_S60E	S60F	S60E	89	6												Regular Maintenance	No
S60G_S60F	S60G	S60F	137	6												Regular Maintenance	No
S60H_S60E	S60H	S60E	130	6												Regular Maintenance	No
S60I_S60H	S60I	S60H	100	6												Regular Maintenance	No
S60J_S60I	S60J	S60I	301	6												Regular Maintenance	No
S60K_S60J	S60K	S60J	167	6												Regular Maintenance	No
S61_S60A	S61	S60A	213	6												Regular Maintenance	No
S62C_Unk	S62C	Unk	343	6												Regular Maintenance	No
S63_W292	S63	W292	160	6												Regular Maintenance	No
S63A_S63	S63A	S63	250	6												Regular Maintenance	No
S63B_S63A	S63B	S63A	159	6												Regular Maintenance	No
S63C_S63B	S63C	S63B	200	6												Regular Maintenance	No
S63D_S63C	S63D	S63C	291	6												Regular Maintenance	No
S63F_S63C	S63F	S63C	563	6												Regular Maintenance	No
S63G_S63F	S63G	S63F	312	6												Regular Maintenance	No
S64_S63	S64	S63	202	6												Regular Maintenance	No
S64A_S64	S64A	S64	166	8												Regular Maintenance	No
S64B_S64A	S64B	S64A	109	8												Regular Maintenance	No
S64C_S64B	S64C	S64B	193	8												Regular Maintenance	No
S64D_S64C	S64D	S64C	154	8												Regular Maintenance	No
S64E_S64D	S64E	S64D	69	8												Regular Maintenance	No
S64F_S64E	S64F	S64E	27	8												Regular Maintenance	No
S64G_S64F	S64G	S64F	93	6												Regular Maintenance	No
S64H_Unk	S64H	Unk	15	6												Regular Maintenance	No
S64J_S64T	S64J	S64T	189	6												Regular Maintenance	No
S64K_S64H	S64K	S64H	79	6												Regular Maintenance	No
S64L_S64K	S64L	S64K	188	6												Regular Maintenance	No
S64M_S64L	S64M	S64L	57	6												Regular Maintenance	No
S64N_S64M	S64N	S64M	172	6												Regular Maintenance	No
S64P_S64N	S64P	S64N	61	6												Regular Maintenance	No
S64Q_S64P	S64Q	S64P	193	6												Regular Maintenance	No
S64R_S64Q	S64R	S64Q	62	6												Regular Maintenance	No
S64T_S64H	S64T	S64H	179	6												Regular Maintenance	No
S65_W299	S65	W299	356	6												Regular Maintenance	No
S65A_S65	S65A	S65	213	6												Regular Maintenance	No
S65B_S65A	S65B	S65A	194	6												Regular Maintenance	No
S65C_S65B	S65C	S65B	246	6												Regular Maintenance	No
S66_S65	S66	S65	69	6												Regular Maintenance	No
S7_W289	S7	W289	348	14												Regular Maintenance	No
S73_S72	S73	S72	160	6												Regular Maintenance	No
S74_W364	S74	W364	176	6												Regular Maintenance	No
S77_S76	S77	S76	413	6												Regular Maintenance	No
S8_S7	S8	S7	376	14												Regular Maintenance	No
S80_S79	S80	S79	423	6												Regular Maintenance	No
S82_S80	S82	S80	119	6												Regular Maintenance	No
S83_S82	S83	S82	375	6												Regular Maintenance	No
S85_Unk	S85	Unk	165	6												Regular Maintenance	No
S88_W468	S88	W468	188	6												Regular Maintenance	No
S9_S8	S9	S8	40	14												Regular Maintenance	No
S91_S90	S91	S90	99	8												Regular Maintenance	No
S93_W436	S93	W436	110	8												Regular Maintenance	No
S94_S93	S94	S93	211	6												6-Month Frequency	No
S95_S94	S95	S94	226	6												6-Month Frequency	No
S96_S95	S96	S95	184	6												Regular Maintenance	No
S96A_S96	S96A	S96	47	6												Regular Maintenance	No
S97_S96A	S97	S96A	165	6												Regular Maintenance	No
S97A_S97	S97A	S97	200	6												Regular Maintenance	No
S98_S97A	S98	S97A	226	6												Regular Maintenance	No
S99_S98	S99	S98	103	6												Regular Maintenance	No
S99A_S99	S99A	S99	73	6												Regular Maintenance	No
S99B_S99	S99B	S99	130	6												Regular Maintenance	No
S99C_S99B	S99C	S99B	57	6												Regular Maintenance	No
SC-1036_S344	SC-1036	S344	45	6												Regular Maintenance	No
SC-1037_S366	SC-1037	S366	67	8												Regular Maintenance	No
SC-1038_S365	SC-1038	S365	57	6												Regular Maintenance	No
SC-1040_S363	SC-1040	S363	30	8												Regular Maintenance	No
SC-1041_S370	SC-1041	S370	55	6												Regular Maintenance	No
SC-1042_S370	SC-1042	S370	31	6												Regular Maintenance	No
SC-1043_S369	SC-1043	S369	35	6												Regular Maintenance	No
SC-1045_Unk	SC-1045	Unk	20	6												Regular Maintenance	No
SC-1046_Unk	SC-1046	Unk	53	6												Regular Maintenance	No
SC-1083_Unk	SC-1083	Unk	29	4												Regular Maintenance	No
SC-2085_Unk	SC-2085	Unk	50	6												Regular Maintenance	No
SC-2093_S313	SC-2093	S313	42	4												Regular Maintenance	No
SC-2096_Unk	SC-2096	Unk	44	4												Regular Maintenance	No
SC-2841_Unk	SC-2841	Unk	35	4												Regular Maintenance	No
SC-4597_W578	SC-4597	W578	29	4												Regular Maintenance	No
SC-4598_W583	SC-4598	W583	45	4												Regular Maintenance	No
Unk_4A	Unk	4A	42	6												Regular Maintenance	No
Unk_CO-108	Unk	CO-108	14	6												Regular Maintenance	No
Unk_CO-110	Unk	CO-110	28	14												Regular Maintenance	No
Unk_CO-139	Unk	CO-139	28	6												Regular Maintenance	No
Unk_CO-162	Unk	CO-162	96	4												Regular Maintenance	No
Unk_CO-217	Unk	CO-217	90	4												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
Unk_CO-293	Unk	CO-293	88	6												Regular Maintenance	No
Unk_CO-303	Unk	CO-303	21	6												Regular Maintenance	No
Unk_CO-304	Unk	CO-304	37	6												Regular Maintenance	No
Unk_CO-34	Unk	CO-34	97	6												Regular Maintenance	No
Unk_CO-35	Unk	CO-35	16	6												Regular Maintenance	No
Unk_CO-378	Unk	CO-378	17	4												Regular Maintenance	No
Unk_CO-382	Unk	CO-382	73	6												Regular Maintenance	No
Unk_CO-393	Unk	CO-393	77	4												Regular Maintenance	No
Unk_CO-396	Unk	CO-396	78	4												Regular Maintenance	No
Unk_CO-411	Unk	CO-411	24	8												Regular Maintenance	No
Unk_CO-412	Unk	CO-412	14	6												Regular Maintenance	No
Unk_CO-436	Unk	CO-436	24	4												Regular Maintenance	No
Unk_CO-607	Unk	CO-607	25	4												Regular Maintenance	No
Unk_CO-660	Unk	CO-660	76	6												Regular Maintenance	No
Unk_N10	Unk	N10	252	8												Regular Maintenance	No
Unk_N12	Unk	N12	462	6												Regular Maintenance	No
Unk_N14	Unk	N14	581	6												Regular Maintenance	No
Unk_N17	Unk	N17	51	8												Regular Maintenance	No
Unk_N17E	Unk	N17E	27	6												Regular Maintenance	No
Unk_N17F	Unk	N17F	20	6												Regular Maintenance	No
Unk_N17H	Unk	N17H	303	6												Regular Maintenance	No
Unk_N23A	Unk	N23A	234	6												Regular Maintenance	No
Unk_N23D	Unk	N23D	34	10												Regular Maintenance	No
Unk_N29	Unk	N29	149	6												Regular Maintenance	No
Unk_N305	Unk	N305	141	8												Regular Maintenance	No
Unk_N30E	Unk	N30E	157	6												Regular Maintenance	No
Unk_N32B	Unk	N32B	25	10												Regular Maintenance	No
Unk_N37	Unk	N37	83	6												Regular Maintenance	No
Unk_N47B	Unk	N47B	106	6												Regular Maintenance	No
Unk_N47K	Unk	N47K	79	6												Regular Maintenance	No
Unk_N7A	Unk	N7A	55	6												Regular Maintenance	No
Unk_N7B	Unk	N7B	20	6												Regular Maintenance	No
Unk_N7B	Unk	N7B	29	6												Regular Maintenance	No
Unk_S100	Unk	S100	131	6												Regular Maintenance	No
Unk_S107	Unk	S107	53	6												Regular Maintenance	No
Unk_S110A	Unk	S110A	32	6												Regular Maintenance	No
Unk_S113	Unk	S113	34	6												Regular Maintenance	No
Unk_S114	Unk	S114	60	6												Regular Maintenance	No
Unk_S121	Unk	S121	60	6												Regular Maintenance	No
Unk_S121C	Unk	S121C	65	6												Regular Maintenance	No
Unk_S124	Unk	S124	361	12												Regular Maintenance	No
Unk_S126	Unk	S126	283	6												Regular Maintenance	No
Unk_S129	Unk	S129	441	12												Regular Maintenance	No
Unk_S155	Unk	S155	339	6												Regular Maintenance	No
Unk_S172	Unk	S172	144	6												Regular Maintenance	No
Unk_S177	Unk	S177	23	21												Regular Maintenance	No
Unk_S180	Unk	S180	11	42												Regular Maintenance	No
Unk_S193	Unk	S193	20	8												Regular Maintenance	No
Unk_S19C	Unk	S19C	256	6												Regular Maintenance	No
Unk_S204	Unk	S204	85	8												Regular Maintenance	No
Unk_S208	Unk	S208	22	8												Regular Maintenance	No
Unk_S209	Unk	S209	35	8												Regular Maintenance	No
Unk_S209	Unk	S209	24	8												Regular Maintenance	No
Unk_S211	Unk	S211	26	8												Regular Maintenance	No
Unk_S22	Unk	S22	52	12												Regular Maintenance	No
Unk_S22A	Unk	S22A	13	6												Regular Maintenance	No
Unk_S22D	Unk	S22D	152	6												Regular Maintenance	No
Unk_S23E	Unk	S23E	40	6												Regular Maintenance	No
Unk_S240B	Unk	S240B	60	6												Regular Maintenance	No
Unk_S247	Unk	S247	249	6												Regular Maintenance	No
Unk_S256	Unk	S256	59	8												Regular Maintenance	No
Unk_S25A	Unk	S25A	19	10												Regular Maintenance	No
Unk_S263	Unk	S263	186	10												Regular Maintenance	No
Unk_S271	Unk	S271	206	8												Regular Maintenance	No
Unk_S300	Unk	S300	28	8												Regular Maintenance	No
Unk_S305	Unk	S305	25	8												Regular Maintenance	No
Unk_S306	Unk	S306	27	10												Regular Maintenance	No
Unk_S306	Unk	S306	23	10												Regular Maintenance	No
Unk_S306	Unk	S306	28	10												Regular Maintenance	No
Unk_S309	Unk	S309	26	21												Regular Maintenance	No
Unk_S312	Unk	S312	33	8												Regular Maintenance	No
Unk_S313	Unk	S313	153	8												Regular Maintenance	No
Unk_S320	Unk	S320	298	8												Regular Maintenance	No
Unk_S322	Unk	S322	20	8												Regular Maintenance	No
Unk_S322	Unk	S322	23	8												Regular Maintenance	No
Unk_S324	Unk	S324	20	8												Regular Maintenance	No
Unk_S325	Unk	S325	18	8												Regular Maintenance	No
Unk_S325	Unk	S325	16	8												Regular Maintenance	No
Unk_S330	Unk	S330	501	8												Regular Maintenance	No
Unk_S332	Unk	S332	16	8												Regular Maintenance	No
Unk_S332	Unk	S332	41	4												Regular Maintenance	No
Unk_S339D	Unk	S339D	26	8												Regular Maintenance	No
Unk_S339D	Unk	S339D	279	10												Regular Maintenance	No
Unk_S339D	Unk	S339D	97	8												Regular Maintenance	No
Unk_S339F	Unk	S339F	138	10												Regular Maintenance	No
Unk_S339H	Unk	S339H	34	10												Regular Maintenance	No
Unk_S340	Unk	S340	49	4												Regular Maintenance	No
Unk_S340	Unk	S340	39	4												Regular Maintenance	No
Unk_S340	Unk	S340	32	8												Regular Maintenance	No
Unk_S344	Unk	S344	28	8												Regular Maintenance	No
Unk_S347	Unk	S347	23	8												Regular Maintenance	No
Unk_S347	Unk	S347	22	8												Regular Maintenance	No
Unk_S348	Unk	S348	22	8												Regular Maintenance	No
Unk_S348	Unk	S348	23	8												Regular Maintenance	No
Unk_S35	Unk	S35	21	6												Regular Maintenance	No
Unk_S358	Unk	S358	19	4												Regular Maintenance	No
Unk_S36	Unk	S36	52	6												Regular Maintenance	No
Unk_S361	Unk	S361	20	8												Regular Maintenance	No
Unk_S362	Unk	S362	20	8												Regular Maintenance	No
Unk_S363	Unk	S363	198	15												Regular Maintenance	No
Unk_S368A	Unk	S368A	16	6												Regular Maintenance	No
Unk_S368A	Unk	S368A	30	6												Regular Maintenance	No
Unk_S369	Unk	S369	21	6												Regular Maintenance	No
Unk_S370	Unk	S370	185	8												Regular Maintenance	No
Unk_S377	Unk	S377	101	18												Regular Maintenance	No
Unk_S377	Unk	S377	143	18												Regular Maintenance	No
Unk_S39A	Unk	S39A	354	8												Regular Maintenance	No
Unk_S40	Unk	S40	398	14												Regular Maintenance	No
Unk_S400	Unk	S400	192	6												Regular Maintenance	No
Unk_S42	Unk	S42	202	6												Regular Maintenance	No
Unk_S42	Unk	S42	181	6												Regular Maintenance	No
Unk_S42A	Unk	S42A	167	6												Regular Maintenance	No
Unk_S42C	Unk	S42C	18	6												Regular Maintenance	No
Unk_S46C	Unk	S46C	26	6												Regular Maintenance	No
Unk_S48	Unk	S48	16	12												Regular Maintenance	No
Unk_S53F	Unk	S53F	8	10												Regular Maintenance	No
Unk_S56	Unk	S56	43	6												Regular Maintenance	No
Unk_S60K	Unk	S60K	47	6												Regular Maintenance	No
Unk_S62A	Unk	S62A	387	6												Regular Maintenance	No
Unk_S63G	Unk	S63G	24	6												Regular Maintenance	No
Unk_S64G	Unk	S64G	15	6												Regular Maintenance	No
Unk_S72	Unk	S72	33	6												Regular Maintenance	No
Unk_S84	Unk	S84	52	6												Regular Maintenance	No
Unk_S85	Unk	S85	157	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	247	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	27	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	143	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	96	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	296	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	16	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	163	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	16	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	102	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	19	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	156	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	10	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	25	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	20	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	16	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	12	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	69	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	210	12												Regular Maintenance	No
Unk_Unk	Unk	Unk	95	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	59	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	23	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	33	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	188	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	105	12												Regular Maintenance	No
Unk_Unk	Unk	Unk	44	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	83	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	30	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	9	6												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
Unk_Unk	Unk	Unk	233	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	157	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	213	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	65	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	6	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	139	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	15	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	18	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	10	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	147	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	23	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	42	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	42	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	19	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	22	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	138	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	107	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	17	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	193	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	190	12												Regular Maintenance	No
Unk_Unk	Unk	Unk	395	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	103	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	33	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	28	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	238	12												Regular Maintenance	No
Unk_Unk	Unk	Unk	11	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	11	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	10	4												Regular Maintenance	No
Unk_Unk	Unk	Unk	59	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	190	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	16	6												Regular Maintenance	No
Unk_Unk	Unk	Unk	80	20												Regular Maintenance	No
Unk_Unk	Unk	Unk	74	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	13	8												Regular Maintenance	No
Unk_Unk	Unk	Unk	31	18												Regular Maintenance	No
Unk_W103	Unk	W103	305	6												Regular Maintenance	No
Unk_W116	Unk	W116	136	8												Regular Maintenance	No
Unk_W119	Unk	W119	14	8												Regular Maintenance	No
Unk_W123	Unk	W123	122	8												Regular Maintenance	No
Unk_W135	Unk	W135	20	8												Regular Maintenance	No
Unk_W145	Unk	W145	120	8												Regular Maintenance	No
Unk_W15	Unk	W15	152	8												Regular Maintenance	No
Unk_W151	Unk	W151	56	6												Regular Maintenance	No
Unk_W152	Unk	W152	14	6												Regular Maintenance	No
Unk_W154	Unk	W154	32	6												Regular Maintenance	No
Unk_W155	Unk	W155	11	6												Regular Maintenance	No
Unk_W157	Unk	W157	51	4												Regular Maintenance	No
Unk_W162	Unk	W162	76	8												Regular Maintenance	No
Unk_W167	Unk	W167	49	10												Regular Maintenance	No
Unk_W175	Unk	W175	301	8												Regular Maintenance	No
Unk_W176	Unk	W176	139	8												Regular Maintenance	No
Unk_W181	Unk	W181	202	6												Regular Maintenance	No
Unk_W183	Unk	W183	154	15												Regular Maintenance	No
Unk_W184	Unk	W184	14	6												Regular Maintenance	No
Unk_W189	Unk	W189	21	8												Regular Maintenance	No
Unk_W189	Unk	W189	90	8												Regular Maintenance	No
Unk_W190	Unk	W190	76	8												Regular Maintenance	No
Unk_W190	Unk	W190	37	8												Regular Maintenance	No
Unk_W191	Unk	W191	7	8												Regular Maintenance	No
Unk_W195	Unk	W195	72	6												Regular Maintenance	No
Unk_W196	Unk	W196	57	6												Regular Maintenance	No
Unk_W258	Unk	W258	30	8												Regular Maintenance	No
Unk_W26	Unk	W26	270	8												Regular Maintenance	No
Unk_W268	Unk	W268	30	8												Regular Maintenance	No
Unk_W273	Unk	W273	304	8												Regular Maintenance	No
Unk_W279	Unk	W279	324	10												Regular Maintenance	No
Unk_W279	Unk	W279	37	6												Regular Maintenance	No
Unk_W286	Unk	W286	50	6												Regular Maintenance	No
Unk_W290	Unk	W290	17	8												Regular Maintenance	No
Unk_W3	Unk	W3	40	8												Regular Maintenance	No
Unk_W320	Unk	W320	158	6												Regular Maintenance	No
Unk_W336	Unk	W336	28	6												Regular Maintenance	No
Unk_W340	Unk	W340	25	6												Regular Maintenance	No
Unk_W341	Unk	W341	15	6												Regular Maintenance	No
Unk_W350	Unk	W350	16	10												Regular Maintenance	No
Unk_W366	Unk	W366	108	6												Regular Maintenance	No
Unk_W368	Unk	W368	31	6												Regular Maintenance	No
Unk_W369	Unk	W369	114	6												Regular Maintenance	No
Unk_W371	Unk	W371	15	6												Regular Maintenance	No
Unk_W384	Unk	W384	140	6												Regular Maintenance	No
Unk_W385	Unk	W385	12	12												Regular Maintenance	No
Unk_W397	Unk	W397	118	8												Regular Maintenance	No
Unk_W403	Unk	W403	13	8												Regular Maintenance	No
Unk_W429	Unk	W429	18	6												Regular Maintenance	No
Unk_W438	Unk	W438	13	6												Regular Maintenance	No
Unk_W446	Unk	W446	22	6												Regular Maintenance	No
Unk_W447	Unk	W447	20	6												Regular Maintenance	No
Unk_W448	Unk	W448	35	6												Regular Maintenance	No
Unk_W469	Unk	W469	221	6												Regular Maintenance	No
Unk_W473	Unk	W473	275	8												Regular Maintenance	No
Unk_W473	Unk	W473	26	8												Regular Maintenance	No
Unk_W475	Unk	W475	53	8												Regular Maintenance	No
Unk_W477	Unk	W477	7	4												Regular Maintenance	No
Unk_W478	Unk	W478	7	4												Regular Maintenance	No
Unk_W484	Unk	W484	324	10												Regular Maintenance	No
Unk_W491	Unk	W491	10	8												Regular Maintenance	No
Unk_W497	Unk	W497	60	8												Regular Maintenance	No
Unk_W510	Unk	W510	21	6												Regular Maintenance	No
Unk_W521	Unk	W521	272	6												Regular Maintenance	No
Unk_W569	Unk	W569	631	6												Regular Maintenance	No
Unk_W574	Unk	W574	102	6												Regular Maintenance	No
Unk_W579	Unk	W579	186	8												Regular Maintenance	No
Unk_W581	Unk	W581	243	8												Regular Maintenance	No
Unk_W611	Unk	W611	18	8												Regular Maintenance	No
Unk_W611	Unk	W611	22	8												Regular Maintenance	No
Unk_W616	Unk	W616	26	6												Regular Maintenance	No
Unk_W617	Unk	W617	25	6												Regular Maintenance	No
Unk_W664	Unk	W664	16	8												Regular Maintenance	No
Unk_W673	Unk	W673	30	8												Regular Maintenance	No
Unk_W673	Unk	W673	32	8												Regular Maintenance	No
Unk_W674	Unk	W674	33	18												Regular Maintenance	No
Unk_W679	Unk	W679	166	8												Regular Maintenance	No
Unk_W688	Unk	W688	159	8												Regular Maintenance	No
Unk_W70	Unk	W70	142	6												Regular Maintenance	No
Unk_W718	Unk	W718	24	8												Regular Maintenance	No
Unk_W718	Unk	W718	27	8												Regular Maintenance	No
Unk_W737	Unk	W737	300	6												Regular Maintenance	No
Unk_W738	Unk	W738	7	4												Regular Maintenance	No
Unk_W746	Unk	W746	122	12												Regular Maintenance	No
Unk_W747	Unk	W747	245	12												Regular Maintenance	No
Unk_W747	Unk	W747	35	15												Regular Maintenance	No
Unk_W747	Unk	W747	26	12												Regular Maintenance	No
Unk_W748	Unk	W748	240	6												Regular Maintenance	No
Unk_W76	Unk	W76	111	6												Regular Maintenance	No
Unk_W77	Unk	W77	104	8												Regular Maintenance	No
Unk_W78	Unk	W78	22	8												Regular Maintenance	No
Unk_W79	Unk	W79	39	8												Regular Maintenance	No
Unk_W86	Unk	W86	134	6												Regular Maintenance	No
Unk_W876	Unk	W876	103	8												Regular Maintenance	No
Unk_W89	Unk	W89	90	6												Regular Maintenance	No
Unk_W927	Unk	W927	12	6												Regular Maintenance	No
Unk_W928	Unk	W928	34	4												Regular Maintenance	No
Unk_W97	Unk	W97	97	6												Regular Maintenance	No
W1_Unk	W1	Unk	370	6												Regular Maintenance	No
W10_W11	W10	W11	379	8												Regular Maintenance	No
W100_S47E	W100	S47E	257	6												Regular Maintenance	No
W101_S47A	W101	S47A	399	6												Regular Maintenance	No
W102_S56A	W102	S56A	221	6												Regular Maintenance	No
W103_S46C	W103	S46C	63	6												Regular Maintenance	No
W104_W94	W104	W94	143	6												Regular Maintenance	No
W105_W104	W105	W104	253	8												Regular Maintenance	No
W106_W92	W106	W92	116	6												Regular Maintenance	No
W107_W106	W107	W106	83	6												Regular Maintenance	No
W108_W139	W108	W139	329	6												Regular Maintenance	No
W11_W2	W11	W2	411	8												Regular Maintenance	No
W110_S320	W110	S320	468	27												Regular Maintenance	No
W111_W109	W111	W109	108	8												Regular Maintenance	No
W112_W111	W112	W111	255	8												Regular Maintenance	No
W113_Unk	W113	Unk	231	8												Regular Maintenance	No
W114_W115	W114	W115	155	8												Regular Maintenance	No
W115_W116	W115	W116	161	8												Regular Maintenance	No
W116_W113	W116	W113	240	8												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W117_W116	W117	W116	203	8												Regular Maintenance	No
W118_W113	W118	W113	193	8												Regular Maintenance	No
W119_W120	W119	W120	299	8												Regular Maintenance	No
W12_W10	W12	W10	358	8												Regular Maintenance	No
W120_W110	W120	W110	132	8												Regular Maintenance	No
W121_S316	W121	S316	498	27												Regular Maintenance	No
W122_W30	W122	W30	264	8												Regular Maintenance	No
W123_W30	W123	W30	248	8												Regular Maintenance	No
W124_W123	W124	W123	169	8												Regular Maintenance	No
W125_W123	W125	W123	257	8												Regular Maintenance	No
W126_W125	W126	W125	200	8												Regular Maintenance	No
W127_W125	W127	W125	319	8												Regular Maintenance	No
W128_W127	W128	W127	263	8												Regular Maintenance	No
W129_W125	W129	W125	300	8												Regular Maintenance	No
W13_W12	W13	W12	156	8												Regular Maintenance	No
W130_W129	W130	W129	195	8												Regular Maintenance	No
W131_W130	W131	W130	172	8												Regular Maintenance	No
W132_W219	W132	W219	273	8												Regular Maintenance	No
W133_W129	W133	W129	297	8												Regular Maintenance	No
W134_W133	W134	W133	148	8												Regular Maintenance	No
W135_Unk	W135	Unk	50	8												Regular Maintenance	No
W136_Unk	W136	Unk	34	6												Regular Maintenance	No
W138_W137	W138	W137	26	6												Regular Maintenance	No
W139_W138	W139	W138	37	6												Regular Maintenance	No
W14_W13	W14	W13	62	8												Regular Maintenance	No
W140_S62A	W140	S62A	139	8												Regular Maintenance	No
W141_W140	W141	W140	118	8												Regular Maintenance	No
W142_S39A	W142	S39A	336	14												Regular Maintenance	No
W144_W209	W144	W209	318	8												Regular Maintenance	No
W145_Unk	W145	Unk	53	8												Regular Maintenance	No
W146_W147	W146	W147	406	8												Regular Maintenance	No
W147_S312A	W147	S312A	188	8												Regular Maintenance	No
W148_S315	W148	S315	253	8												Regular Maintenance	No
W149_S359	W149	S359	149	6												Regular Maintenance	No
W15_W14	W15	W14	52	8												Regular Maintenance	No
W150_W149	W150	W149	155	6												Regular Maintenance	No
W151_S367	W151	S367	237	15												Regular Maintenance	No
W152_Unk	W152	Unk	68	6												Regular Maintenance	No
W153_W154	W153	W154	369	6												Regular Maintenance	No
W154_S343	W154	S343	125	6												Regular Maintenance	No
W155_Unk	W155	Unk	19	6												Regular Maintenance	No
W156_S53G	W156	S53G	195	6												Regular Maintenance	No
W157_W158	W157	W158	292	8												Regular Maintenance	No
W158_Unk	W158	Unk	212	8												Regular Maintenance	No
W159_S339C	W159	S339C	92	10												Regular Maintenance	No
W16_W19	W16	W19	175	6												Regular Maintenance	No
W164_S339C	W164	S339C	35	8												Regular Maintenance	No
W165_W159	W165	W159	313	10												Regular Maintenance	No
W166_W165	W166	W165	194	10												Regular Maintenance	No
W167_W166	W167	W166	226	10												Regular Maintenance	No
W168_Unk	W168	Unk	166	10												Regular Maintenance	No
W170_S339H	W170	S339H	19	10												Regular Maintenance	No
W171_W179	W171	W179	223	8												Regular Maintenance	No
W172_W171	W172	W171	275	8												Regular Maintenance	No
W173_W172	W173	W172	298	8												Regular Maintenance	No
W174_W173	W174	W173	245	8												Regular Maintenance	No
W175_W174	W175	W174	307	8												Regular Maintenance	No
W179_W180	W179	W180	197	8												Regular Maintenance	No
W180_W181	W180	W181	57	8												Regular Maintenance	No
W182_W151	W182	W151	217	15												Regular Maintenance	No
W183_W182	W183	W182	253	15												Regular Maintenance	No
W184_W182	W184	W182	91	6												Regular Maintenance	No
W185_Unk	W185	Unk	61	8												Regular Maintenance	No
W186_W185	W186	W185	225	8												Regular Maintenance	No
W187_W186	W187	W186	224	8												Regular Maintenance	No
W188_S129	W188	S129	137	8												Regular Maintenance	No
W189_W188	W189	W188	176	8												Regular Maintenance	No
W19_W20	W19	W20	233	6												Regular Maintenance	No
W190_Unk	W190	Unk	75	8												Regular Maintenance	No
W191_Unk	W191	Unk	220	8												Regular Maintenance	No
W192_W193	W192	W193	137	6												Regular Maintenance	No
W193_S145	W193	S145	96	6												Regular Maintenance	No
W194_Unk	W194	Unk	35	6												Regular Maintenance	No
W196_W195	W196	W195	57	6												Regular Maintenance	No
W197_Unk	W197	Unk	14	4												Regular Maintenance	No
W197_W196	W197	W196	82	4												Regular Maintenance	No
W198_W156	W198	W156	219	6												Regular Maintenance	No
W199_W198	W199	W198	165	6												Regular Maintenance	No
W2_N33	W2	N33	71	10												Regular Maintenance	No
W20_N27	W20	N27	369	6												Regular Maintenance	No
W200_W199	W200	W199	173	6												Regular Maintenance	No
W201_S123A	W201	S123A	303	12												Regular Maintenance	No
W202_W201	W202	W201	130	8												Regular Maintenance	No
W203_W202	W203	W202	79	8												Regular Maintenance	No
W204_W203	W204	W203	124	8												Regular Maintenance	No
W205_W204	W205	W204	320	8												Regular Maintenance	No
W206_W205	W206	W205	293	8												Regular Maintenance	No
W207_W206	W207	W206	156	8												Regular Maintenance	No
W208_W212	W208	W212	306	8												Regular Maintenance	No
W209_W210	W209	W210	301	8												Regular Maintenance	No
W210_W211	W210	W211	313	8												Regular Maintenance	No
W211_W214	W211	W214	299	8												Regular Maintenance	No
W212_W213	W212	W213	291	8												Regular Maintenance	No
W213_W818	W213	W818	256	8												Regular Maintenance	No
W214_W213	W214	W213	253	8												Regular Maintenance	No
W216_W218	W216	W218	263	8												Regular Maintenance	No
W217_W216	W217	W216	11	8												Regular Maintenance	No
W218_W226	W218	W226	60	8												Regular Maintenance	No
W219_W218	W219	W218	301	8												Regular Maintenance	No
W220_W126	W220	W126	172	8												Regular Maintenance	No
W221_W222	W221	W222	274	8												Regular Maintenance	No
W222_W229	W222	W229	244	8												Regular Maintenance	No
W223_W222	W223	W222	161	8												Regular Maintenance	No
W224_W223	W224	W223	103	8												Regular Maintenance	No
W225_W224	W225	W224	149	8												Regular Maintenance	No
W226_W225	W226	W225	141	8												Regular Maintenance	No
W227_W30	W227	W30	319	8												Regular Maintenance	No
W228_W229	W228	W229	264	8												Regular Maintenance	No
W229_Unk	W229	Unk	91	8												Regular Maintenance	No
W230_W231	W230	W231	183	8												Regular Maintenance	No
W231_W224	W231	W224	185	8												Regular Maintenance	No
W232_W233	W232	W233	219	8												Regular Maintenance	No
W233_W234	W233	W234	65	8												Regular Maintenance	No
W234_W214	W234	W214	210	8												Regular Maintenance	No
W235_W238	W235	W238	228	8												Regular Maintenance	No
W236_W235	W236	W235	208	8												Regular Maintenance	No
W237_W236	W237	W236	221	8												Regular Maintenance	No
W238_W242	W238	W242	199	8												Regular Maintenance	No
W239_W241	W239	W241	260	8												Regular Maintenance	No
W24_W25	W24	W25	294	6												Regular Maintenance	No
W240_W239	W240	W239	56	8												Regular Maintenance	No
W241_W238	W241	W238	269	8												Regular Maintenance	No
W242_W243	W242	W243	73	8												Regular Maintenance	No
W243_W245	W243	W245	216	8												Regular Maintenance	No
W244_W246	W244	W246	76	8												Regular Maintenance	No
W245_W244	W245	W244	285	8												Regular Maintenance	No
W246_W247	W246	W247	154	8												Regular Maintenance	No
W247_W248	W247	W248	233	8												Regular Maintenance	No
W248_Unk	W248	Unk	163	8												Regular Maintenance	No
W249_W247	W249	W247	205	8												Regular Maintenance	No
W25_N25	W25	N25	106	6												Regular Maintenance	No
W250_W249	W250	W249	297	8												Regular Maintenance	No
W251_W248	W251	W248	200	8												Regular Maintenance	No
W252_W251	W252	W251	203	8												Regular Maintenance	No
W254_W255	W254	W255	96	8												Regular Maintenance	No
W255_W256	W255	W256	201	8												Regular Maintenance	No
W257_W254	W257	W254	56	8												Regular Maintenance	No
W258_W257	W258	W257	19	8												Regular Maintenance	No
W26_Unk	W26	Unk	66	8												Regular Maintenance	No
W26_W27	W26	W27	34	8												Regular Maintenance	No
W262_W248	W262	W248	135	8												Regular Maintenance	No
W263_W247	W263	W247	231	8												Regular Maintenance	No
W264_W263	W264	W263	103	8												Regular Maintenance	No
W266_W246	W266	W246	83	8												Regular Maintenance	No
W267_W268	W267	W268	136	8												Regular Maintenance	No
W268_W266	W268	W266	109	8												Regular Maintenance	No
W27_W30	W27	W30	228	8												Regular Maintenance	No
W270_W267	W270	W267	310	8												Regular Maintenance	No
W271_W267	W271	W267	228	8												Regular Maintenance	No
W272_W271	W272	W271	253	8												Regular Maintenance	No
W273_S59	W273	S59	39	6												Regular Maintenance	No
W275_S61	W275	S61	67	6												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W276_S60G	W276	S60G	167	6												Regular Maintenance	No
W277_W275	W277	W275	121	6												Regular Maintenance	No
W278_W287	W278	W287	179	6												Regular Maintenance	No
W279_W283	W279	W283	320	18												Regular Maintenance	No
W28_Unk	W28	Unk	40	8												Regular Maintenance	No
W280_W279	W280	W279	177	8												Regular Maintenance	No
W281_W280	W281	W280	140	8												Regular Maintenance	No
W282_W281	W282	W281	238	8												Regular Maintenance	No
W283_W284	W283	W284	269	18												Regular Maintenance	No
W284_S17	W284	S17	36	18												Regular Maintenance	No
W285_S379A	W285	S379A	41	18												Regular Maintenance	No
W287_Unk	W287	Unk	149	6												Regular Maintenance	No
W288_S9	W288	S9	17	14												Regular Maintenance	No
W289_S5	W289	S5	101	14												Regular Maintenance	No
W29_W28	W29	W28	156	8												Regular Maintenance	No
W290_Unk	W290	Unk	43	8												Regular Maintenance	No
W291_S311	W291	S311	174	10												Regular Maintenance	No
W292_S62A	W292	S62A	260	6												Regular Maintenance	No
W293_W141	W293	W141	218	8												Regular Maintenance	No
W294_W293	W294	W293	235	8												Regular Maintenance	No
W295_W294	W295	W294	58	8												Regular Maintenance	No
W296_W294	W296	W294	267	8												Regular Maintenance	No
W297_W296	W297	W296	79	8												Regular Maintenance	No
W298_W299	W298	W299	188	8												Regular Maintenance	No
W299_S64	W299	S64	114	6												Regular Maintenance	No
W3_W4	W3	W4	63	8												Regular Maintenance	No
W300_S11E	W300	S11E	272	6												Regular Maintenance	No
W301_W302	W301	W302	361	24												Regular Maintenance	No
W302_W303	W302	W303	392	24												Regular Maintenance	No
W303_W304	W303	W304	350	24												Regular Maintenance	No
W305_W288	W305	W288	227	24												Regular Maintenance	No
W308_W307	W308	W307	232	6												Regular Maintenance	No
W309_S384	W309	S384	201	10												Regular Maintenance	No
W31_W29	W31	W29	223	8												Regular Maintenance	No
W310_W309	W310	W309	117	10												Regular Maintenance	No
W311_W310	W311	W310	296	10												Regular Maintenance	No
W312_W311	W312	W311	132	10												Regular Maintenance	No
W313_S390	W313	S390	218	8												Regular Maintenance	No
W314_W313	W314	W313	162	8												Regular Maintenance	No
W315_W314	W315	W314	140	8												Regular Maintenance	No
W316_W315	W316	W315	229	8												Regular Maintenance	No
W317_W316	W317	W316	229	6												Regular Maintenance	No
W318_W317	W318	W317	284	6												Regular Maintenance	No
W319_W316	W319	W316	344	6												Regular Maintenance	No
W32_W33	W32	W33	103	8												Regular Maintenance	No
W320_W321	W320	W321	140	6												Regular Maintenance	No
W321_S403	W321	S403	443	6												Regular Maintenance	No
W322_S412	W322	S412	225	8												Regular Maintenance	No
W323_W322	W323	W322	225	8												Regular Maintenance	No
W324_W323	W324	W323	90	8												Regular Maintenance	No
W325_W324	W325	W324	199	8												Regular Maintenance	No
W326_W325	W326	W325	342	8												Regular Maintenance	No
W327_W326	W327	W326	204	8												Regular Maintenance	No
W328_W327	W328	W327	345	8												Regular Maintenance	No
W329_W330	W329	W330	245	6												Regular Maintenance	No
W33_W34	W33	W34	253	8												Regular Maintenance	No
W330_W332	W330	W332	300	6												Regular Maintenance	No
W331_W323	W331	W323	162	6												Regular Maintenance	No
W332_W331	W332	W331	316	6												Regular Maintenance	No
W333_W301	W333	W301	340	24												Regular Maintenance	No
W334_W333	W334	W333	143	24												Regular Maintenance	No
W335_S35	W335	S35	222	6												Regular Maintenance	No
W336_S20	W336	S20	48	6												Regular Maintenance	No
W34_W80	W34	W80	288	8												Regular Maintenance	No
W340_Unk	W340	Unk	63	6												Regular Maintenance	No
W341_Unk	W341	Unk	15	6												Regular Maintenance	No
W342_W344	W342	W344	166	6												Regular Maintenance	No
W343_S22A	W343	S22A	22	6												Regular Maintenance	No
W344_W343	W344	W343	74	6												Regular Maintenance	No
W345_W344	W345	W344	105	6												Regular Maintenance	No
W346_W345	W346	W345	140	6												Regular Maintenance	No
W347_S23	W347	S23	323	12												Regular Maintenance	No
W348_S5	W348	S5	599	6												Regular Maintenance	No
W349_S25	W349	S25	302	6												Regular Maintenance	No
W35_W33	W35	W33	197	8												Regular Maintenance	No
W350_Unk	W350	Unk	111	10												Regular Maintenance	No
W357_W356	W357	W356	299	8												Regular Maintenance	No
W36_W37	W36	W37	222	8												Regular Maintenance	No
W362_W363	W362	W363	120	8												Regular Maintenance	No
W363_W364	W363	W364	248	8												Regular Maintenance	No
W366_S73	W366	S73	192	6												Regular Maintenance	No
W367_Unk	W367	Unk	20	6												Regular Maintenance	No
W368_W367	W368	W367	25	6												Regular Maintenance	No
W369_Unk	W369	Unk	27	6												Regular Maintenance	No
W370_S83	W370	S83	83	6												Regular Maintenance	No
W371_Unk	W371	Unk	84	6												Regular Maintenance	No
W372_W374	W372	W374	235	8												Regular Maintenance	No
W373_W372	W373	W372	188	8												Regular Maintenance	No
W374_N3A	W374	N3A	22	8												Regular Maintenance	No
W375_W376	W375	W376	56	8												Regular Maintenance	No
W376_W377	W376	W377	53	8												Regular Maintenance	No
W377_N2B	W377	N2B	136	15												Regular Maintenance	No
W378_N2I	W378	N2I	203	6												Regular Maintenance	No
W379_W378	W379	W378	150	6												Regular Maintenance	No
W38_W36	W38	W36	213	8												Regular Maintenance	No
W380_W858	W380	W858	251	8												Regular Maintenance	No
W382_W900	W382	W900	68	8												Regular Maintenance	No
W383_Unk	W383	Unk	74	6												Regular Maintenance	No
W384_N41D	W384	N41D	65	6												Regular Maintenance	No
W385_W389	W385	W389	171	12												Regular Maintenance	No
W386_Unk	W386	Unk	14	12												Regular Maintenance	No
W387_W386	W387	W386	242	12												Regular Maintenance	No
W388_W387	W388	W387	47	12												Regular Maintenance	No
W389_W390	W389	W390	88	12												Regular Maintenance	No
W390_W391	W390	W391	60	12												Regular Maintenance	No
W391_W392	W391	W392	110	12												Regular Maintenance	No
W392_W393	W392	W393	142	12												Regular Maintenance	No
W393_W394	W393	W394	130	12												Regular Maintenance	No
W394_W395	W394	W395	61	12												Regular Maintenance	No
W395_W396	W395	W396	59	12												Regular Maintenance	No
W396_Unk	W396	Unk	54	12												Regular Maintenance	No
W397_W901	W397	W901	253	15												Regular Maintenance	No
W4_W5	W4	W5	424	8												Regular Maintenance	No
W402_W401	W402	W401	42	12												Regular Maintenance	No
W403_W402	W403	W402	214	8												Regular Maintenance	No
W404_Unk	W404	Unk	255	8												Regular Maintenance	No
W406_N47G	W406	N47G	248	6												Regular Maintenance	No
W407_W328	W407	W328	249	8												Regular Maintenance	No
W408_W407	W408	W407	194	8												Regular Maintenance	No
W409_W408	W409	W408	222	8												Regular Maintenance	No
W410_W412	W410	W412	230	8												Regular Maintenance	No
W411_W410	W411	W410	61	8												Regular Maintenance	No
W412_W413	W412	W413	133	8												Regular Maintenance	No
W413_W417	W413	W417	273	8												Regular Maintenance	No
W414_W415	W414	W415	150	8												Regular Maintenance	No
W415_W422	W415	W422	212	8												Regular Maintenance	No
W416_W417	W416	W417	127	6												Regular Maintenance	No
W417_W433	W417	W433	167	8												Regular Maintenance	No
W418_W417	W418	W417	163	8												Regular Maintenance	No
W419_W418	W419	W418	173	8												Regular Maintenance	No
W420_W419	W420	W419	138	8												Regular Maintenance	No
W421_W420	W421	W420	129	8												Regular Maintenance	No
W422_W421	W422	W421	100	8												Regular Maintenance	No
W423_W422	W423	W422	283	8												Regular Maintenance	No
W424_W425	W424	W425	258	6												Regular Maintenance	No
W425_W431	W425	W431	293	6												Regular Maintenance	No
W426_W430	W426	W430	169	8												Regular Maintenance	No
W427_W426	W427	W426	150	8												Regular Maintenance	No
W428_W427	W428	W427	139	8												Regular Maintenance	No
W429_W428	W429	W428	55	8												Regular Maintenance	No
W430_W431	W430	W431	238	10												Regular Maintenance	No
W431_W432	W431	W432	216	10												Regular Maintenance	No
W432_W433	W432	W433	328	10												Regular Maintenance	No
W433_W434	W433	W434	144	10												Regular Maintenance	No
W434_S421	W434	S421	309	10												Regular Maintenance	No
W435_S25B	W435	S25B	229	10												Regular Maintenance	No
W436_S91	W436	S91	143	8												Regular Maintenance	No
W437_S25C	W437	S25C	298	6												Regular Maintenance	No
W438_Unk	W438	Unk	15	6												Regular Maintenance	No
W441_S206	W441	S206	72	18												Regular Maintenance	No
W442_CO-375	W442	CO-375	26	6												Regular Maintenance	No
W442_W441	W442	W441	168	6												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W443_W442	W443	W442	146	18												Regular Maintenance	No
W446_S207	W446	S207	147	6												Regular Maintenance	No
W447_S207	W447	S207	140	24												Regular Maintenance	No
W448_S208	W448	S208	92	24												Regular Maintenance	No
W449_W448	W449	W448	48	24												Regular Maintenance	No
W450_S209	W450	S209	69	18												Regular Maintenance	No
W452_W450	W452	W450	212	8												Regular Maintenance	No
W454_W452	W454	W452	224	8												Regular Maintenance	No
W455_W449	W455	W449	206	8												Regular Maintenance	No
W456_W455	W456	W455	96	8												Regular Maintenance	No
W459_W458	W459	W458	179	8												Regular Maintenance	No
W460_W461	W460	W461	214	8												Regular Maintenance	No
W461_W459	W461	W459	218	8												Regular Maintenance	No
W462_W460	W462	W460	261	8												Regular Maintenance	No
W463_W443	W463	W443	134	18												Regular Maintenance	No
W466_W458	W466	W458	395	18												Regular Maintenance	No
W467_W466	W467	W466	231	18												Regular Maintenance	No
W468_W370	W468	W370	132	6												Regular Maintenance	No
W469_W468	W469	W468	128	6												Regular Maintenance	No
W470_Unk	W470	Unk	21	6												Regular Maintenance	No
W472_N15	W472	N15	280	6												Regular Maintenance	No
W473_W472	W473	W472	407	6												Regular Maintenance	No
W474_Unk	W474	Unk	67	8												Regular Maintenance	No
W475_Unk	W475	Unk	19	8												Regular Maintenance	No
W476_Unk	W476	Unk	19	4												Regular Maintenance	No
W477_Unk	W477	Unk	13	4												Regular Maintenance	No
W478_Unk	W478	Unk	10	4												Regular Maintenance	No
W480_N17A	W480	N17A	49	6												Regular Maintenance	No
W481_W480	W481	W480	64	6												Regular Maintenance	No
W482_W481	W482	W481	98	6												Regular Maintenance	No
W483_W482	W483	W482	39	6												Regular Maintenance	No
W484_W485	W484	W485	130	15												Regular Maintenance	No
W485_N4	W485	N4	263	15												Regular Maintenance	No
W485_Unk	W485	Unk	28	15												Regular Maintenance	No
W486_W484	W486	W484	440	15												Regular Maintenance	No
W491_W492	W491	W492	88	8												Regular Maintenance	No
W492_W494	W492	W494	164	8												Regular Maintenance	No
W493_W492	W493	W492	104	8												Regular Maintenance	No
W495_W493	W495	W493	145	8												Regular Maintenance	No
W496_W495	W496	W495	274	8												Regular Maintenance	No
W497_W496	W497	W496	145	8												Regular Maintenance	No
W499_N7	W499	N7	27	8												Regular Maintenance	No
W5_W10	W5	W10	457	8												Regular Maintenance	No
W50_W51	W50	W51	315	8												6-Month Frequency	No
W504_W467	W504	W467	232	18												Regular Maintenance	No
W508_N42	W508	N42	195	6												Regular Maintenance	No
W509_W508	W509	W508	25	6												Regular Maintenance	No
W51_W52	W51	W52	290	8												Regular Maintenance	No
W510_W509	W510	W509	247	6												Regular Maintenance	No
W511_W512	W511	W512	137	12												Regular Maintenance	No
W512_W513	W512	W513	45	12												Regular Maintenance	No
W513_W514	W513	W514	62	12												Regular Maintenance	No
W514_W388	W514	W388	136	12												Regular Maintenance	No
W515_W486	W515	W486	366	15												Regular Maintenance	No
W516_W515	W516	W515	281	15												Regular Maintenance	No
W519_W521	W519	W521	205	6												Regular Maintenance	No
W52_W39	W52	W39	208	8												Regular Maintenance	No
W520_N45J	W520	N45J	196	8												Regular Maintenance	No
W521_N49	W521	N49	39	6												Regular Maintenance	No
W522_N40B	W522	N40B	209	6												Regular Maintenance	No
W523_W522	W523	W522	284	8												Regular Maintenance	No
W524_N40M	W524	N40M	169	8												Regular Maintenance	No
W525_W524	W525	W524	83	8												Regular Maintenance	No
W526_W525	W526	W525	258	8												Regular Maintenance	No
W527_W526	W527	W526	313	8												Regular Maintenance	No
W528_W527	W528	W527	201	8												Regular Maintenance	No
W529_N40U	W529	N40U	112	8												Regular Maintenance	No
W53_W52	W53	W52	207	8												Regular Maintenance	No
W530_W529	W530	W529	99	6												Regular Maintenance	No
W531_W530	W531	W530	123	6												Regular Maintenance	No
W532_W531	W532	W531	85	6												Regular Maintenance	No
W533_W530	W533	W530	195	6												Regular Maintenance	No
W534_W533	W534	W533	154	6												Regular Maintenance	No
W535_W534	W535	W534	161	6												Regular Maintenance	No
W536_W535	W536	W535	144	6												Regular Maintenance	No
W537_W429	W537	W429	135	8												Regular Maintenance	No
W538_W537	W538	W537	113	6												Regular Maintenance	No
W539_W538	W539	W538	293	8												Regular Maintenance	No
W54_W53	W54	W53	202	8												Regular Maintenance	No
W540_W539	W540	W539	212	8												Regular Maintenance	No
W541_W539	W541	W539	281	6												Regular Maintenance	No
W542_W541	W542	W541	99	6												Regular Maintenance	No
W543_W426	W543	W426	263	8												Regular Maintenance	No
W544_W543	W544	W543	250	8												Regular Maintenance	No
W545_W429	W545	W429	100	8												Regular Maintenance	No
W546_W545	W546	W545	303	8												Regular Maintenance	No
W547_W538	W547	W538	199	6												Regular Maintenance	No
W548_W547	W548	W547	331	6												Regular Maintenance	No
W549_W599	W549	W599	374	8												Regular Maintenance	No
W55_W53	W55	W53	281	8												Regular Maintenance	No
W550_W548	W550	W548	236	6												Regular Maintenance	No
W551_W550	W551	W550	242	6												Regular Maintenance	No
W552_W548	W552	W548	226	6												Regular Maintenance	No
W553_W554	W553	W554	184	6												Regular Maintenance	No
W554_W552	W554	W552	195	6												Regular Maintenance	No
W556_W600	W556	W600	164	6												Regular Maintenance	No
W557_W554	W557	W554	172	6												Regular Maintenance	No
W558_W557	W558	W557	85	6												Regular Maintenance	No
W559_W556	W559	W556	276	6												Regular Maintenance	No
W56_W55	W56	W55	243	8												6-Month Frequency	No
W560_W559	W560	W559	451	6												Regular Maintenance	No
W561_S112E	W561	S112E	68	6												Regular Maintenance	No
W562_S112F	W562	S112F	91	6												Regular Maintenance	No
W563_W562	W563	W562	217	6												Regular Maintenance	No
W564_S278	W564	S278	358	6												Regular Maintenance	No
W565_W564	W565	W564	241	6												Regular Maintenance	No
W566_W565	W566	W565	156	6												Regular Maintenance	No
W567_W564	W567	W564	394	6												Regular Maintenance	No
W568_W570	W568	W570	367	6												Regular Maintenance	No
W569_W566	W569	W566	109	6												Regular Maintenance	No
W57_N13	W57	N13	164	6												Regular Maintenance	No
W570_W566	W570	W566	206	6												Regular Maintenance	No
W571_W570	W571	W570	173	6												Regular Maintenance	No
W572_W571	W572	W571	129	6												Regular Maintenance	No
W573_W568	W573	W568	173	6												Regular Maintenance	No
W574_W573	W574	W573	84	6												Regular Maintenance	No
W575_W576	W575	W576	246	6												Regular Maintenance	No
W576_W577	W576	W577	347	6												Regular Maintenance	No
W577_W583	W577	W583	300	6												Regular Maintenance	No
W578_W583	W578	W583	249	8												Regular Maintenance	No
W579_W578	W579	W578	250	8												Regular Maintenance	No
W58_W60	W58	W60	185	8												Regular Maintenance	No
W580_W579	W580	W579	285	6												Regular Maintenance	No
W581_W580	W581	W580	383	6												Regular Maintenance	No
W582_W581	W582	W581	181	6												Regular Maintenance	No
W583_W540	W583	W540	279	8												Regular Maintenance	No
W584_W602	W584	W602	182	6												Regular Maintenance	No
W585_W572	W585	W572	147	6												Regular Maintenance	No
W586_W567	W586	W567	401	6												Regular Maintenance	No
W587_S279	W587	S279	404	6												Regular Maintenance	No
W588_W584	W588	W584	201	6												Regular Maintenance	No
W589_W588	W589	W588	201	6												Regular Maintenance	No
W59_W57	W59	W57	159	8												Regular Maintenance	No
W590_Unk	W590	Unk	153	10												Regular Maintenance	No
W591_S265	W591	S265	262	6												Regular Maintenance	No
W592_W591	W592	W591	379	6												Regular Maintenance	No
W594_W595	W594	W595	254	6												Regular Maintenance	No
W595_W596	W595	W596	293	6												Regular Maintenance	No
W596_W591	W596	W591	264	6												Regular Maintenance	No
W597_W430	W597	W430	394	6												Regular Maintenance	No
W598_W597	W598	W597	333	6												Regular Maintenance	No
W599_W598	W599	W598	30	6												Regular Maintenance	No
W6_W5	W6	W5	166	8												Regular Maintenance	No
W60_W59	W60	W59	70	8												Regular Maintenance	No
W600_W599	W600	W599	241	6												Regular Maintenance	No
W601_S112C	W601	S112C	250	6												Regular Maintenance	No
W602_W601	W602	W601	208	6												Regular Maintenance	No
W603_W450	W603	W450	328	8												Regular Maintenance	No
W604_S121	W604	S121	112	6												Regular Maintenance	No
W607_W608	W607	W608	133	10												Regular Maintenance	No
W608_S256	W608	S256	119	10												Regular Maintenance	No
W609_S255	W609	S255	171	10												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W61_W54	W61	W54	224	8												Regular Maintenance	No
W610_W611	W610	W611	397	18												Regular Maintenance	No
W611_W603	W611	W603	110	18												Regular Maintenance	No
W612_W633	W612	W633	252	8												Regular Maintenance	No
W613_W629	W613	W629	212	8												Regular Maintenance	No
W614_W615	W614	W615	122	8												Regular Maintenance	No
W615_W616	W615	W616	78	8												Regular Maintenance	No
W616_W617	W616	W617	86	8												Regular Maintenance	No
W617_W618	W617	W618	220	8												Regular Maintenance	No
W618_W603	W618	W603	320	8												Regular Maintenance	No
W619_W756	W619	W756	383	6												Regular Maintenance	No
W62_W54	W62	W54	182	8												Regular Maintenance	No
W620_W619	W620	W619	265	6												Regular Maintenance	No
W621_W622	W621	W622	193	6												Regular Maintenance	No
W622_W624	W622	W624	155	8												Regular Maintenance	No
W623_W622	W623	W622	130	6												Regular Maintenance	No
W624_W625	W624	W625	115	8												Regular Maintenance	No
W625_W764	W625	W764	141	8												Regular Maintenance	No
W626_W629	W626	W629	95	8												Regular Maintenance	No
W629_W630	W629	W630	209	8												Regular Maintenance	No
W63_W62	W63	W62	163	8												Regular Maintenance	No
W630_W610	W630	W610	358	8												Regular Maintenance	No
W632_W633	W632	W633	139	8												Regular Maintenance	No
W633_W636	W633	W636	210	8												Regular Maintenance	No
W64_W63	W64	W63	74	8												6-Month Frequency	No
W640_W504	W640	W504	274	8												Regular Maintenance	No
W641_W504	W641	W504	288	18												Regular Maintenance	No
W642_W640	W642	W640	247	8												Regular Maintenance	No
W643_W641	W643	W641	299	18												Regular Maintenance	No
W644_W642	W644	W642	222	8												Regular Maintenance	No
W645_W644	W645	W644	106	6												Regular Maintenance	No
W646_W645	W646	W645	174	6												Regular Maintenance	No
W647_W648	W647	W648	192	6												Regular Maintenance	No
W648_W649	W648	W649	193	6												Regular Maintenance	No
W649_W650	W649	W650	86	6												Regular Maintenance	No
W650_W652	W650	W652	177	6												Regular Maintenance	No
W651_W643	W651	W643	272	18												Regular Maintenance	No
W652_W653	W652	W653	68	6												Regular Maintenance	No
W653_W651	W653	W651	82	18												Regular Maintenance	No
W655_W653	W655	W653	361	18												Regular Maintenance	No
W656_W657	W656	W657	246	18												Regular Maintenance	No
W657_W655	W657	W655	163	18												Regular Maintenance	No
W658_W659	W658	W659	235	8												Regular Maintenance	No
W659_W656	W659	W656	169	8												Regular Maintenance	No
W660_W656	W660	W656	94	18												Regular Maintenance	No
W661_W660	W661	W660	325	18												Regular Maintenance	No
W662_W661	W662	W661	342	18												Regular Maintenance	No
W664_CO-544	W664	CO-544	45	8												Regular Maintenance	No
W666_W665	W666	W665	453	15												Regular Maintenance	No
W667_W666	W667	W666	12	10												Regular Maintenance	No
W669_N24A	W669	N24A	178	10												Regular Maintenance	No
W670_W675	W670	W675	233	8												Regular Maintenance	No
W671_W670	W671	W670	162	8												Regular Maintenance	No
W671_W682	W671	W682	273	8												Regular Maintenance	No
W672_W671	W672	W671	206	18												Regular Maintenance	No
W673_W672	W673	W672	205	18												Regular Maintenance	No
W674_W673	W674	W673	181	18												Regular Maintenance	No
W675_W676	W675	W676	193	8												Regular Maintenance	No
W676_W677	W676	W677	224	8												Regular Maintenance	No
W677_W678	W677	W678	41	8												Regular Maintenance	No
W678_W684	W678	W684	239	18												Regular Maintenance	No
W679_W678	W679	W678	40	8												Regular Maintenance	No
W680_W679	W680	W679	95	8												Regular Maintenance	No
W681_W683	W681	W683	211	8												Regular Maintenance	No
W682_Unk	W682	Unk	14	8												Regular Maintenance	No
W683_W671	W683	W671	173	8												Regular Maintenance	No
W685_S263	W685	S263	292	8												Regular Maintenance	No
W687_S261	W687	S261	139	10												Regular Maintenance	No
W688_W687	W688	W687	163	8												Regular Maintenance	No
W69_Unk	W69	Unk	41	8												Regular Maintenance	No
W690_W689	W690	W689	250	8												Regular Maintenance	No
W691_S260	W691	S260	266	8												Regular Maintenance	No
W692_W693	W692	W693	384	8												Regular Maintenance	No
W693_W690	W693	W690	284	8												Regular Maintenance	No
W694_W693	W694	W693	137	8												Regular Maintenance	No
W695_W694	W695	W694	246	8												Regular Maintenance	No
W696_W702	W696	W702	280	8												Regular Maintenance	No
W697_W698	W697	W698	153	8												Regular Maintenance	No
W698_W699	W698	W699	164	8												Regular Maintenance	No
W699_W700	W699	W700	198	8												Regular Maintenance	No
W7_W6	W7	W6	111	8												Regular Maintenance	No
W700_W701	W700	W701	305	8												Regular Maintenance	No
W701_W695	W701	W695	162	8												Regular Maintenance	No
W702_W697	W702	W697	353	8												Regular Maintenance	No
W703_W704	W703	W704	102	8												Regular Maintenance	No
W704_W705	W704	W705	140	8												Regular Maintenance	No
W705_W714	W705	W714	151	8												Regular Maintenance	No
W706_W707	W706	W707	145	8												Regular Maintenance	No
W707_W708	W707	W708	218	8												Regular Maintenance	No
W708_W709	W708	W709	157	8												Regular Maintenance	No
W709_W710	W709	W710	346	8												Regular Maintenance	No
W710_W695	W710	W695	324	8												Regular Maintenance	No
W711_W709	W711	W709	156	8												Regular Maintenance	No
W712_W711	W712	W711	246	8												Regular Maintenance	No
W713_W714	W713	W714	267	8												Regular Maintenance	No
W714_W716	W714	W716	324	8												Regular Maintenance	No
W716_W711	W716	W711	246	8												Regular Maintenance	No
W717_W716	W717	W716	156	8												Regular Maintenance	No
W718_W716	W718	W716	167	8												Regular Maintenance	No
W719_W718	W719	W718	334	8												Regular Maintenance	No
W720_W719	W720	W719	250	8												Regular Maintenance	No
W721_W720	W721	W720	353	8												Regular Maintenance	No
W722_W720	W722	W720	292	8												Regular Maintenance	No
W723_W702	W723	W702	318	8												Regular Maintenance	No
W724_W721	W724	W721	155	8												Regular Maintenance	No
W725_W724	W725	W724	209	8												Regular Maintenance	No
W726_W725	W726	W725	200	8												Regular Maintenance	No
W727_W726	W727	W726	93	8												Regular Maintenance	No
W728_W727	W728	W727	119	8												Regular Maintenance	No
W729_W722	W729	W722	296	8												Regular Maintenance	No
W730_W722	W730	W722	101	8												Regular Maintenance	No
W731_W730	W731	W730	157	8												Regular Maintenance	No
W732_W731	W732	W731	211	8												Regular Maintenance	No
W733_W732	W733	W732	76	8												Regular Maintenance	No
W734_W733	W734	W733	171	8												Regular Maintenance	No
W735_W732	W735	W732	263	8												Regular Maintenance	No
W736_W735	W736	W735	112	8												Regular Maintenance	No
W737_Unk	W737	Unk	11	6												Regular Maintenance	No
W738_Unk	W738	Unk	10	4												Regular Maintenance	No
W739_W740	W739	W740	246	12												Regular Maintenance	No
W740_W741	W740	W741	224	12												Regular Maintenance	No
W741_W742	W741	W742	230	12												Regular Maintenance	No
W742_W743	W742	W743	82	12												Regular Maintenance	No
W743_CO-647	W743	CO-647	136	6												Regular Maintenance	No
W744_W745	W744	W745	269	12												Regular Maintenance	No
W745_Unk	W745	Unk	149	12												Regular Maintenance	No
W746_Unk	W746	Unk	25	12												Regular Maintenance	No
W747_Unk	W747	Unk	104	18												Regular Maintenance	No
W748_N30A	W748	N30A	354	6												Regular Maintenance	No
W749_Unk	W749	Unk	125	6												Regular Maintenance	No
W751_S242	W751	S242	115	6												Regular Maintenance	No
W752_W751	W752	W751	306	6												Regular Maintenance	No
W754_W753	W754	W753	188	6												Regular Maintenance	No
W755_W754	W755	W754	287	6												Regular Maintenance	No
W756_S239B	W756	S239B	251	12												Regular Maintenance	No
W757_W756	W757	W756	105	12												Regular Maintenance	No
W758_W757	W758	W757	136	12												Regular Maintenance	No
W759_W758	W759	W758	251	12												Regular Maintenance	No
W76_S328	W76	S328	225	8												Regular Maintenance	No
W760_W759	W760	W759	176	12												Regular Maintenance	No
W761_W625	W761	W625	72	6												Regular Maintenance	No
W762_W759	W762	W759	139	6												Regular Maintenance	No
W763_W762	W763	W762	92	6												Regular Maintenance	No
W764_W758	W764	W758	213	8												Regular Maintenance	No
W765_W623	W765	W623	93	6												Regular Maintenance	No
W77_S329	W77	S329	98	8												Regular Maintenance	No
W771_W680	W771	W680	171	8												Regular Maintenance	No
W772_W771	W772	W771	159	8												Regular Maintenance	No
W773_CO-675	W773	CO-675	55	8												Regular Maintenance	No
W773_W772	W773	W772	80	8												Regular Maintenance	No
W774_W775	W774	W775	242	8												Regular Maintenance	No
W775_W776	W775	W776	205	8												Regular Maintenance	No

Appendix H2: Gravity Mains Not Within 200 feet of a Named Windsor Surface Water - Inspection and Maintenance Schedule

Facility ID	From Manhole	To Manhole	Length, ft	Diameter, in.	Installation Date	Rehabilitation Date	Most Recent Inspection Date Prior to 2/5/14	PACP Quick Code From Most Recent Inspection	Next Inspection Scheduled, month/year	Actual Inspection Date	PACP Quick Code From Scheduled Inspection	Resulting Maintenance Action	Most Recent Cleaning Date	Next Scheduled Cleaning Date, month/year	Actual Cleaning Date	Hotspot Identification	200 ft. Proximity to Named Windsor Surface Water
W776_W683	W776	W683	181	8												Regular Maintenance	No
W78_S323	W78	S323	266	8												Regular Maintenance	No
W781_W760	W781	W760	221	12												Regular Maintenance	No
W782_W781	W782	W781	233	6												Regular Maintenance	No
W786_W787	W786	W787	238	6												Regular Maintenance	No
W787_W788	W787	W788	262	6												Regular Maintenance	No
W788_W784	W788	W784	148	6												Regular Maintenance	No
W789_W786	W789	W786	176	6												Regular Maintenance	No
W79_Unk	W79	Unk	150	8												Regular Maintenance	No
W794_W793	W794	W793	140	6												Regular Maintenance	No
W795_W794	W795	W794	107	6												Regular Maintenance	No
W8_W7	W8	W7	68	8												Regular Maintenance	No
W804_W803	W804	W803	247	8												Regular Maintenance	No
W805_W804	W805	W804	28	8												Regular Maintenance	No
W806_W805	W806	W805	296	8												Regular Maintenance	No
W807_W806	W807	W806	296	8												Regular Maintenance	No
W810_W804	W810	W804	261	8												Regular Maintenance	No
W811_W810	W811	W810	72	6												Regular Maintenance	No
W812_W810	W812	W810	179	6												Regular Maintenance	No
W817_W272	W817	W272	252	8												Regular Maintenance	No
W818_W822	W818	W822	271	10												Regular Maintenance	No
W820_W291	W820	W291	244	8												Regular Maintenance	No
W821_W820	W821	W820	294	10												Regular Maintenance	No
W822_W821	W822	W821	293	10												Regular Maintenance	No
W824_W825	W824	W825	297	8												Regular Maintenance	No
W825_W823	W825	W823	192	8												Regular Maintenance	No
W827_S179	W827	S179	294	24												Regular Maintenance	No
W828_N1C	W828	N1C	300	24												Regular Maintenance	No
W829_W827	W829	W827	223	24												Regular Maintenance	No
W830_W829	W830	W829	111	24												Regular Maintenance	No
W831_W830	W831	W830	127	8												Regular Maintenance	No
W832_W831	W832	W831	222	8												Regular Maintenance	No
W833_W832	W833	W832	241	8												Regular Maintenance	No
W834_W831	W834	W831	263	8												Regular Maintenance	No
W835_W830	W835	W830	132	18												Regular Maintenance	No
W836_W835	W836	W835	223	15												Regular Maintenance	No
W837_W836	W837	W836	331	15												Regular Maintenance	No
W838_W835	W838	W835	221	8												Regular Maintenance	No
W839_W838	W839	W838	82	8												Regular Maintenance	No
W84_W150	W84	W150	312	6												Regular Maintenance	No
W840_W839	W840	W839	226	8												Regular Maintenance	No
W841_W838	W841	W838	218	8												Regular Maintenance	No
W842_W840	W842	W840	267	8												Regular Maintenance	No
W843_W839	W843	W839	232	8												Regular Maintenance	No
W844_W841	W844	W841	217	8												Regular Maintenance	No
W845_W844	W845	W844	86	8												Regular Maintenance	No
W846_W845	W846	W845	251	8												Regular Maintenance	No
W847_W845	W847	W845	217	8												Regular Maintenance	No
W848_W847	W848	W847	120	8												Regular Maintenance	No
W849_W848	W849	W848	156	8												Regular Maintenance	No
W85_W84	W85	W84	257	6												Regular Maintenance	No
W850_CO-703	W850	CO-703	133	8												Regular Maintenance	No
W851_W850	W851	W850	238	8												Regular Maintenance	No
W852_W851	W852	W851	25	8												Regular Maintenance	No
W853_W833	W853	W833	275	8												Regular Maintenance	No
W854_W834	W854	W834	264	8												Regular Maintenance	No
W855_W854	W855	W854	249	8												Regular Maintenance	No
W856_W853	W856	W853	247	8												Regular Maintenance	No
W857_W855	W857	W855	210	8												Regular Maintenance	No
W858_W856	W858	W856	204	8												Regular Maintenance	No
W859_W837	W859	W837	233	6												Regular Maintenance	No
W859_W837	W859	W837	222	15												Regular Maintenance	No
W86_W85	W86	W85	518	6												Regular Maintenance	No
W860_W859	W860	W859	71	15												Regular Maintenance	No
W861_W860	W861	W860	107	15												Regular Maintenance	No
W862_W843	W862	W843	264	8												Regular Maintenance	No
W863_W862	W863	W862	230	8												Regular Maintenance	No
W864_W842	W864	W842	267	8												Regular Maintenance	No
W865_W846	W865	W846	278	8												Regular Maintenance	No
W866_W865	W866	W865	181	8												Regular Maintenance	No
W867_W849	W867	W849	158	8												Regular Maintenance	No
W868_W867	W868	W867	136	8												Regular Maintenance	No
W869_W868	W869	W868	114	8												Regular Maintenance	No
W87_W86	W87	W86	304	6												Regular Maintenance	No
W870_W869	W870	W869	83	8												Regular Maintenance	No
W871_W852	W871	W852	267	8												Regular Maintenance	No
W872_W871	W872	W871	242	8												Regular Maintenance	No
W873_W870	W873	W870	106	8												Regular Maintenance	No
W874_W873	W874	W873	143	8												Regular Maintenance	No
W875_W874	W875	W874	82	8												Regular Maintenance	No
W876_W875	W876	W875	182	8												Regular Maintenance	No
W877_W873	W877	W873	339	8												Regular Maintenance	No
W878_W876	W878	W876	245	8												Regular Maintenance	No
W88_W84	W88	W84	237	6												Regular Maintenance	No
W880_W878	W880	W878	196	8												Regular Maintenance	No
W881_W880	W881	W880	68	8												Regular Maintenance	No
W882_W877	W882	W877	229	8												Regular Maintenance	No
W883_W882	W883	W882	301	8												Regular Maintenance	No
W884_W885	W884	W885	127	8												Regular Maintenance	No
W885_W887	W885	W887	283	8												Regular Maintenance	No
W886_W883	W886	W883	287	8												Regular Maintenance	No
W887_W886	W887	W886	254	8												Regular Maintenance	No
W888_W861	W888	W861	174	15												Regular Maintenance	No
W889_W890	W889	W890	296	8												Regular Maintenance	No
W89_W88	W89	W88	47	6												Regular Maintenance	No
W890_W891	W890	W891	315	8												Regular Maintenance	No
W891_W892	W891	W892	276	8												Regular Maintenance	No
W892_W872	W892	W872	514	8												Regular Maintenance	No
W893_W888	W893	W888	166	15												Regular Maintenance	No
W894_W893	W894	W893	250	8												Regular Maintenance	No
W895_W894	W895	W894	267	8												Regular Maintenance	No
W896_W893	W896	W893	286	15												Regular Maintenance	No
W897_W896	W897	W896	216	15												Regular Maintenance	No
W898_Unk	W898	Unk	116	8												Regular Maintenance	No
W899_W897	W899	W897	184	8												Regular Maintenance	No
W9_W10	W9	W10	265	8												Regular Maintenance	No
W90_Unk	W90	Unk	130	6												Regular Maintenance	No
W900_W901	W900	W901	191	8												Regular Maintenance	No
W901_W897	W901	W897	253	15												Regular Maintenance	No
W902_Unk	W902	Unk	131	8												Regular Maintenance	No
W903_W904	W903	W904	255	8												Regular Maintenance	No
W904_W905	W904	W905	258	8												Regular Maintenance	No
W905_W902	W905	W902	246	8												Regular Maintenance	No
W907_CO-730	W907	CO-730	419	8												Regular Maintenance	No
W908_W907	W908	W907	192	8												Regular Maintenance	No
W909_W908	W909	W908	86	8												Regular Maintenance	No
W91_W90	W91	W90	143	6												Regular Maintenance	No
W910_W909	W910	W909	59	8												Regular Maintenance	No
W911_W912	W911	W912	203	8												Regular Maintenance	No
W912_W913	W912	W913	81	8												Regular Maintenance	No
W913_W887	W913	W887	186	8												Regular Maintenance	No
W914_W912	W914	W912	243	8												Regular Maintenance	No
W915_W886	W915	W886	254	8												Regular Maintenance	No
W916_W917	W916	W917	159	8												Regular Maintenance	No
W917_W918	W917	W918	198	8												Regular Maintenance	No
W918_W908	W918	W908	254	8												Regular Maintenance	No
W919_W920	W919	W920	124	8												Regular Maintenance	No
W92_W90	W92	W90	193	6												Regular Maintenance	No
W920_W915	W920	W915	329	8												Regular Maintenance	No
W922_W923	W922	W923	208	8												Regular Maintenance	No
W926_Unk	W926	Unk	54	4												Regular Maintenance	No
W927_Unk	W927	Unk	20	6												Regular Maintenance	No
W928_Unk	W928	Unk	67	4												Regular Maintenance	No
W93_W91	W93	W91	265	6												Regular Maintenance	No
W94_W93	W94	W93	333	6												Regular Maintenance	No
W95_W85	W95	W85	208	6												Regular Maintenance	No
W96_Unk	W96	Unk	14	6												Regular Maintenance	No
W97_S53E	W97	S53E	121	6												Regular Maintenance	No
W98_S53E	W98	S53E	183	6												Regular Maintenance	No
W99_S53E	W99	S53E	300	10												Regular Maintenance	No
		Total Length:	**428,100**														
		Total Length:	**81.08**														

APPENDIX I

Town of Windsor Inventory and Consumables List

Appendix I: REMIF - Vehicle List Town of Windsor

City #per Town	Location	Vehicle Description	Year	Vehicle ID #	Value		License Plate Number
1	PW	Buick LaSabre (Director)	2002	164HP54K72U289117	18,009.00	*	1130486
2	PW	Ford Explorer (Mike Carson)	2003	1FMZU72K63ZB38608	23,510.00	*	1167110
3	PW	Jeep Cherokee 4X4 (Mike)	1996	1J4FJ28S1TL234217	19,950.00	*	358089
4	PW	White Tractor	1987	100600X014784	30,000.00	*	SE426994
5	PW	Ford Loader-Scraper	1990	S/N A411991	50,000.00	*	
6	PW	Dodge BR2500 3/4 Ton 4X4	1996	1B6KF26Z6TJ171590	24,051.00	*	358133
8	PW	JCB Backhoe	1989	349685	45,000.00	*	SE426993
10	PW	Dodge Ram 3500	2001	3B6MC36WX1M271429	18,458.00	*	106Z104
11	PW	Ford F350 1 Ton Crew Cab	2001	1FDWW36S11EC97511	31,295.00	*	1100143
12	PW	John Deere Crawler/Doz JD400G	1991	TO400GC769630	42,000.00	*	
13	PW	John Deere Backhoe	1981	JD410LB366810	50,000.00	*	SE162585
14	PW	GMC Dump Truck	1987	1GDJ7DIB7HV532914	23,082.00	*	77005
15	PW	Dodge Ram 2500 Pickup	1999	3B6KF26Z3XM570255	19,776.00	*	1028480
16	PW	Ford F250 4WD Pickup	1997	3FTHF26H9VMA52306	19,829.00	*	358192
18	PW	Ford F350 Flatbed- 1 Ton Pickup	1988	2FDJF37G6JCB12704	15,102.00	*	99701
20	PW	Dodge BR2500 3/4 Ton 4X4	1996	1B6KF26ZXTJ171592	24,051.00	*	358132
21	PW	Ford Expedition	2000	1FMPU16L9YLB83592	32,442.00	*	1042825
23	PW	Dodge Ram 2500 Pickup 4WD	1999	3B6KF26Z1XM570254	19,776.00	*	1028479
24	PW	International Dump Truck	2001	1HTSDAARX1H280824	70,000.00	*	1052702
25	PW	International 4300 SBA 4X2	2003	1HTMMAAM63H570445	65,000.00	*	1139157
26	PW	Ford F550 Flatbed Truck	2001	1FDAF56S61ED07407	25,775.00	*	1081037
27	PW	Dodge Ram 3500 Flatbed	1999	3B6MC36W8XM570104	19,826.00	*	1028478
28	PW	John Deere Farm Tractor	1990	LO2355F420428	25,000.00	*	SE426996
29	PW	John Deere Farm Tractor	1990	L02355F720565	25,000.00	*	SE426997
30	PW	Hyster Forklift	1991	C177B05616M	35,000.00	*	
32	PW	Kawasaki Off Road	1991	JK1AFAC13LB501867	9,000.00	*	SE426999
34	PW	Chevy K3500 Truck (added truck body)	2003	1GBJK34U13E349662	26,220.00	*	1139192
36	PW	Ford F350 4WD Pickup	1994	1FTHF26H7RLA70908	21,200.00	*	357989
37	PW	John Deere Gator 6x4 utility vehicle	2003	W006X4DO35171	9,809.00	*	
39	PW	Chevy Silverado	2003	1GBGC24U93Z340105	20,381.00	*	1139185
42	PW	John Deere Backhoe/Loader	2003	T0410GX921980	86,199.00	*	
43	PW	Ford Escape 4wd Hybrid	2008	1FMCU59H58KB15731	27,955.00	Added 11/15/07	1198336
45	PW	Ford Escape	2007	1FMYU59H87KB68041	27,115.00	*	1235041
47	PW	John Deere 410	2000	T0410EX888807	76,000.00	*	
48	PW	Ford F250 4WD	2003	3FTNX2IL53MB43985	22,508.00	*	1139184
49	PW	Ford F250 4WD	2003	3FTNX2IL33MB43984	22,508.00	*	1139183
50	PW	EL Gem (electric)	2007	5ASAK27427F043213	17,030.00	*	1116159
51	PW	EL Gem (electric)	2007	5ASAK27407F043940	17,030.00	*	
52	PW	Pace trailer	2007	4P2WB20297U078655	10,462.00	*	1198307
53	PW	Ford Ranger Supercab 4WD	2007	1FTYR15E77PA84497	17,041.00	*	1260185
54	PW	Ford Escape 4wd Hybrid	2008	1FMCU59H58KA50508	26,251.00	*	1260181
55	PW	Ford F250 Super Duty	2008	1FTSW21RX8EB35209	32,156.00	*	1260089
56	PW	Hurco vacuum trailer	2007	1C9BV13187B987055	61,080.00	Added 07/25/07	
58	PW	Ford Escape Hybrid 2WD	2008	1FMCU49H48KC38611	26,002.00	Added 12/10/07	1198333
59	PW	Ford Escape Hybrid 2WD	2008	1FMCU49H68KC38612	26,001.00	Added 12/10/07	
60	PW	Ford Escape Hybrid 2WD	2008	IFMCU49H88KC38613	26,001.00	Added 12/10/07	1198333
61	PW	Iron Eagle trailer	2008	5L6UC10A68F000259	2,312.00	added 11/13/07	1198334
75	PW	Equipment Trailer - Eager Beaver TL6	1989	112TFF145KL031426	4,000.00	*	326887
76	PW	Boat & Motor Valco	1985	HUL032G1D585F	4,000.00	*	2442XC
77	PW	LOA Equipment Trailer - 15 Ton	1989	1B4T29228XK116160	10,000.00	*	326855
78	PW	Norca Equip Trailer - Green mower	1991	1N9EC1211M2PS1009	5,000.00	*	913326
70	PW	Pace trailer	2002	1S9KU21212C381696	4,805.00	*	12068000
79	PW	Morgan Built, Series F Utility trailer	2005	506MF172851005047	3,715.00	*	1167161
101	Adm - Bldg 3	Honda Accord - White	2001	1HGCG66501A002052	21,200.00	*	1062088
102	Adm - Bldg 4	Honda Accord - Silver	2001	1HGCG66541A000143	21,700.00	*	1062089
111	Adm - Bldg 4	Dodge Van Caravan	1992	2B4GH4533NR555424	17,278.00	*	330599
139	m - Meter Re	Dodge Dakota Pickup	2000	1B7GL22X2YS726082	18,000.00	*	1052829
140	m - Meter Re	Ford Escape Hybrid 2WD	2008	1FMCU49H28KB98562	26,001.00	Added 11/15/07	1198335
160	BLDG	Ford Ranger Pickup	1999	1FTYR14VXXPB90122	16,012.00	*	1028491
161	BLDG	Toyota Prius	2005	JTDKB20U853090957	24,579.00	*	5NGP713
200	Parks & Fa	Ford F250	2003	3FTNF20L23MB49408	19,041.00	*	1167128
201	Parks & Fa	Ford F250	2003	3FTNF20L73MB49405	20,325.00	*	1167129
202	Parks & Fa	Ford F250 4 x 2 w/Utility body	2003	3FTNF20L03MB49407	24,389.00	*	1139188
203	Parks & Fa	Ford F250 4 x 2 w/Utility body	2003	3FTNF20L93MB49406	24,389.00	*	1139189
204	Parks & Fa	Ford F350 Flat Bed	2003	1FDWF36L43EA66646	24,950.00		1167127
205	Parks & Fa	Ford Ranger	1991	1FTCR10A4MUB94242	11,300.00		330556
206	ECDS	Ford F350 4X2	2001	2FDKF37GXMA32539	28,000.00		330557
207	EDC	Ford F450 Dump Truck	2006	1FDXF46Y16EB57870	32,152.00		1214591
222	Parks & Fa	John Deere Gator 1924W	2005	W04X2SD005256	5,104.00		
208	Parks & Fa	Ford F150 4x2	2006	1FTRF12W76NA52945	15,875.00		1167259
209	Parks & Fa	Ford Ranger Regular Cab PU	2006	1FTYR10D46PA30488	11,690.00		1167260
210	Parks & Fa	Ford F250 4x2 Supercab PU	2008	1FDNF205X8ED04717	22,702.00	added 2/5/08	
211	Parks & Fa	Ford F250 4x2 Supercab PU	2008	1FDNF20588ED04716	22,702.00	added 2/5/08	
301	Community Serv	Ford F250 Ranger	2003	1FTYR10D03PB82246	12,947.00		1139187
302	Community Serv	Ford F250 Ranger	2003	1FTYR10D03PB82210	12,947.00		1139186
303	Community Serv	Ford Econoline Wagon	2000	1FBSS31S9XHB43565	22,000.00		1052828
304	Community Serv	GMC Sierra PU	2005	1GTEC14T357241724	19,500.00		1183667
305	Community Serv	Journey Cargo Trailer	2006				
306	Community Serv	Journey Cargo Trailer (Pace)	2007	4P2UB14267U084294	6,281.00		1260253
307	Community Serv	Club Car (elec)	2007				
38	Streets	Dodge BR2500 3/4 Ton 4X4	1996	1B6KF26Z8TJ171591	24,051.00		358134
40	Streets	Ford F350 2x4 Flatbed Dump Truc	2004	1FDWF36S54EB66019	28,590.00		1167174
41	Streets	Ford F250 SD	2005	1FTNX20525ED29723	24,527.00		1206877
W-14	PD	Ford Crown Victorial Interceptor	2002	2FAFP71W32X105112	24,454.00		1081043
W-15	PD	Ford Crown Victoria/Patrol	2003	2FAFP71W23X115650	0	retired 10/25/07	1133522

Appendix I: REMIF - Vehicle List Town of Windsor							
City #per Town	Location	Vehicle Description	Year	Vehicle ID #	Value		License Plate Number
W-16	PD	Ford Crown Victoria/Patrol	2003	2FAFP71W63X115649	24,000.00		1133521
W-17	PD	Ford Crown Vic Interceptor	2004	2FAFP71W74X155899	0	Delete 07/19/06	1151320
W-18	PD	Ford Police Interceptor	2005	2FAFP71W45X114230	35,762.00		1183269
W-20	PD	Ford Crown Vic w/pursuit pkg	2006	2FAF971W86X146082	23,746.00		1233515
W-21	PD	Ford Crown Vic w/pursuit pkg	2006	2FAFP71WX6X146083	32,053.00		1233514
W-22	PD	Ford Crown Vic w/pursuit pkg	2006	2FAFP71W16X146084	23,746.00		1233513
W-41	PD	Smart Trailer	1993	1K9BS0817PK118052	13,200.00		SE402470
WB2	PD	Ford Taurus Patrol	1997	1FALP52E2VC186079	0	retired 12/31/06	
WB3	PD	Chevy Impala	2001	2G1WF55K619134690	15,080.00		1156053
WD326	PD	GMC Safari Van	1998	1GKDM19WOW8509235	13,500.00		1001734
	PD	BMW F650GS Motorcycle	2003	WB10182A93-ZE48738	11,653.00		16L36
	PD	Harley Davidson	2005	1HD1FHW165Y614656	15,523.00		714585R
Total					2,204,662.00		

Appendix I: Consumable Inventory List for Public Works Wastewater Division
6/30/07 Wastewater Division

Name of Item	Item No.	Qty	Est Cost	Unit Ext.	Cost
FUSE AGA-5	413-5-0205	0	0.59	EA	$ -
FUSE AGC-1	413-5-0601	10	0.73	EA	$ 7.30
FUSE AGC-2	413-5-0602	10	0.73	EA	$ 7.30
FUSE AGC-3	413-5-0603	10	0.73	EA	$ 7.30
FUSE AGC-4	413-5-0604	10	0.73	EA	$ 7.30
FUSE AGC-5	413-5-0605	7	0.59	EA	$ 4.13
FUSE AGC-7 1/2	413-5-0607	7	0.59	EA	$ 4.13
FUSE AGC-10	413-5-0610	10	0.56	EA	$ 5.60
FUSE AGC-15	413-5-0615	21	0.56	EA	$ 11.76
FUSE AGC-20	413-5-0620	10	0.56	EA	$ 5.60
FUSE SFE-7 1/2	413-5-0507	26	0.56	EA	$ 14.56
FUSE SFE-9	413-5-0509	25	0.56	EA	$ 14.00
FUSE SFE-14	413-5-0514	25	0.56	EA	$ 14.00
FUSE AGC-25	413-5-0625	10	0.56	EA	$ 5.60
FUSE AGC-30	413-5-0630	10	0.56	EA	$ 5.60
FUSE AGX-20	413-5-0720	25	0.57	EA	$ 14.25
FUSE AGX-30	413-5-0730	25	0.57	EA	$ 14.25
FUSE SFE-20	413-5-0520	26	0.56	EA	$ 14.56
FUSE SFE-30	413-5-0530	24	0.75	EA	$ 18.00
FUSE SFE-6	413-5-0506	25	0.65	EA	$ 16.25
FUSE - PUSH IN #3		10	0.55	EA	$ 5.50
FUSE - PUSH IN #5		8	0.55	EA	$ 4.40
FUSE - PUSH IN #7.5		10	0.55	EA	$ 5.50
FUSE - PUSH IN #10		8	0.55	EA	$ 4.40
FUSE - PUSH IN #20		8	0.55	EA	$ 4.40
FUSE - PUSH IN #25		10	0.55	EA	$ 5.50
FUSE - PUSH IN #30		10	0.55	EA	$ 5.50
FUSE PULLER	413-6-0200	0	4.21	EA	$ -
MACHINE SCREW RD HD #6-32 x 1/4"	026-4-9113	48	0.3	EA	$ 14.40
MACHINE SCREW RD HD #6-32 x 1/2"	026-4-9129	45	0.3	EA	$ 13.50
MACHINE SCREW RD HD #6-32 x 3/4"	026-4-9133	50	0.32	EA	$ 16.00
MACHINE SCREW RD HD #6-32 x 1"	026-4-9137	50	0.31	EA	$ 15.50
MACHINE SCREW RD HD #8-32 x 1/4"	026-4-9313	48	0.31	EA	$ 14.88
MACHINE SCREW RD HD #8-32 x 1/2"	026-4-9329	50	0.31	EA	$ 15.50
MACHINE SCREW RD HD #8-32 x 3/4"	026-4-9333	50	0.32	EA	$ 16.00
MACHINE SCREW RD HD #8-32 x 1"	026-4-9337	46	0.32	EA	$ 14.72
MACHINE SCREW RD HD #10-32 x 1/2"	026-4-9629	50	0.32	EA	$ 16.00
MACHINE SCREW RD HD #10-24 x 3/4"	026-4-9533	50	0.32	EA	$ 16.00
Total					$ 379.19

APPENDIX J

Town of Windsor Public Works Training Schedule and Record

Appendix J-1: Town of Windsor Sanitary Sewer Collection System Training Calendar													
Training Area	Training	January 2014	February 2014	March 2014	April 2014	May 2014	June 2014	July 2014	August 2014	September 2014	October 2014	November 2014	December 2014
Core Training	Customer Service												
	Sexual Harassment												
	Cultural Diversity												
	Commercial Drivers												
	IIPP												
Equipment Training	Equipment Operations												
	Chain Saw												
	High Pressure Equipment												
	Forklift												
	Power Rodding												
Operations Training	Confined Space												
	Gas Detector												
	Shoring												
	Traffic Control												
	USA Locating												
	Creeks and Waterways												
	SSO Prevention												
	Overflow Emergency Response Plan												
	CCTV Inspection												
	SSMP and NPDES Permit Compliance												
	SSO Water Quality Sampling												
	SSO Spill Volume Estimating												
	SSO Record Keeping												
Pump Training	Pump Repairs												
	SCADA												
	Electrical												
	Routine Maintenance												
Medical Training	Blood Borne Pathogen												
	Dehydration/Heat Stroke												
	First Aid Training												
	CPR												
Emergency Training	Emergency Evacuation Plan												
	Hazardous Materials												

Appendix J-2: Town of Windsor Sanitary Sewer Collection System Training Log By Employee											
Training Area	Training	Employee 1	Employee 2	Employee 3	Employee 4	Employee 5	Employee 6	Employee 7	Employee 8	Employee 9	Employee 10
Core Training	Customer Service										
	Sexual Harassment										
	Cultural Diversity										
	Commercial Drivers										
	IIPP										
Equipment Training	Equipment Operations										
	Chain Saw										
	High Pressure Equipment										
	Forklift										
	Power Rodding										
Operations Training	Confined Space										
	Gas Detector										
	Shoring										
	Traffic Control										
	USA Locating										
	Creeks and Waterways										
	SSO Prevention										
	Overflow Emergency Resposne Plan										
	CCTV Inspection										
	SSMP and NPDES Permit Compliance										
	SSO Water Quality Sampling										
	SSO Spill Volume Estimating										
	SSO Record Keeping										
Pump Training	Pump Repairs										
	SCADA										
	Electrical										
	Routine Maintenance										
Medical Training	Blood Borne Pathogen										
	Dehydration/Heat Stroke										
	First Aid Training										
	CPR										
Emergency Training	Emergency Evacuation Plan										
	Hazardous Materials										

APPENDIX K

Town of Windsor Overflow Emergency Response Plan (OERP)

K1. OERP FIELD PACKET K-1

SSO Response Procedure Flow Chart K-3

Sanitary Sewer Overflow Report K-5

Spill Volume Estimation & San Diego Manhole Spill Rate Chart K-7

Water Quality Sampling Procedures K-11

Water Quality Sampling Field Data Form K-13

Water Quality Sampling Procedures Flow Chart K-15

Spill Warning Sign K-17

Incident/Traffic Accident Report Form K-19

K.2 OERP MANAGEMENT PACKET K-21

SSO Reporting Flow Chart K-23

State of California Water Resource Control Board Order No. WQ 2013-0058-EXEC K-25

Sanitary Sewer Overflow Report K-39

Spill Volume Estimation & San Diego Manhole Spill Rate Chart K-41

Water Quality Sampling Procedures K-45

Water Quality Sampling Field Data Form K-47

Water Quality Sampling Procedures Flow Chart K-49

Creek Protection: Emergency Environmental and Waterways Permits K-51

Incident/Traffic Accident Report Form K-55

Enrollee's Guide to the SSO Database Sanitary Sewer Overflow Reduction Program K-57

Lake or Streambed Alteration Program – Information Regarding Emergency Work K-163

Lake or Streambed Alteration Program – Notification of Emergency Work K-165

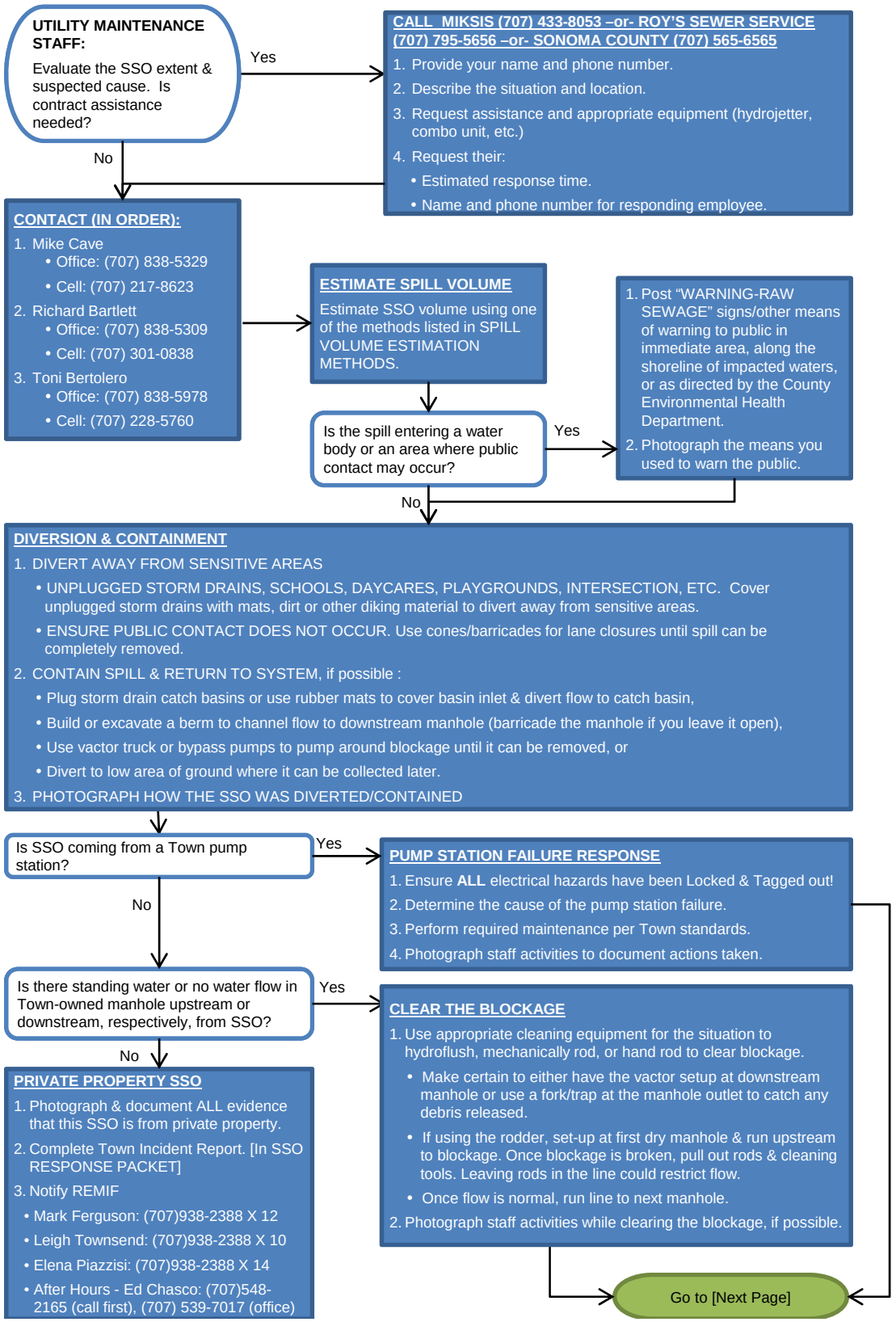
CEQA Article 18. Statutory Exemptions (sections 15260 to 15285) K-169

Electronic Code of Federal Regulations (Title 20: Protection of Environment, Part 401 General Provisions) K-181

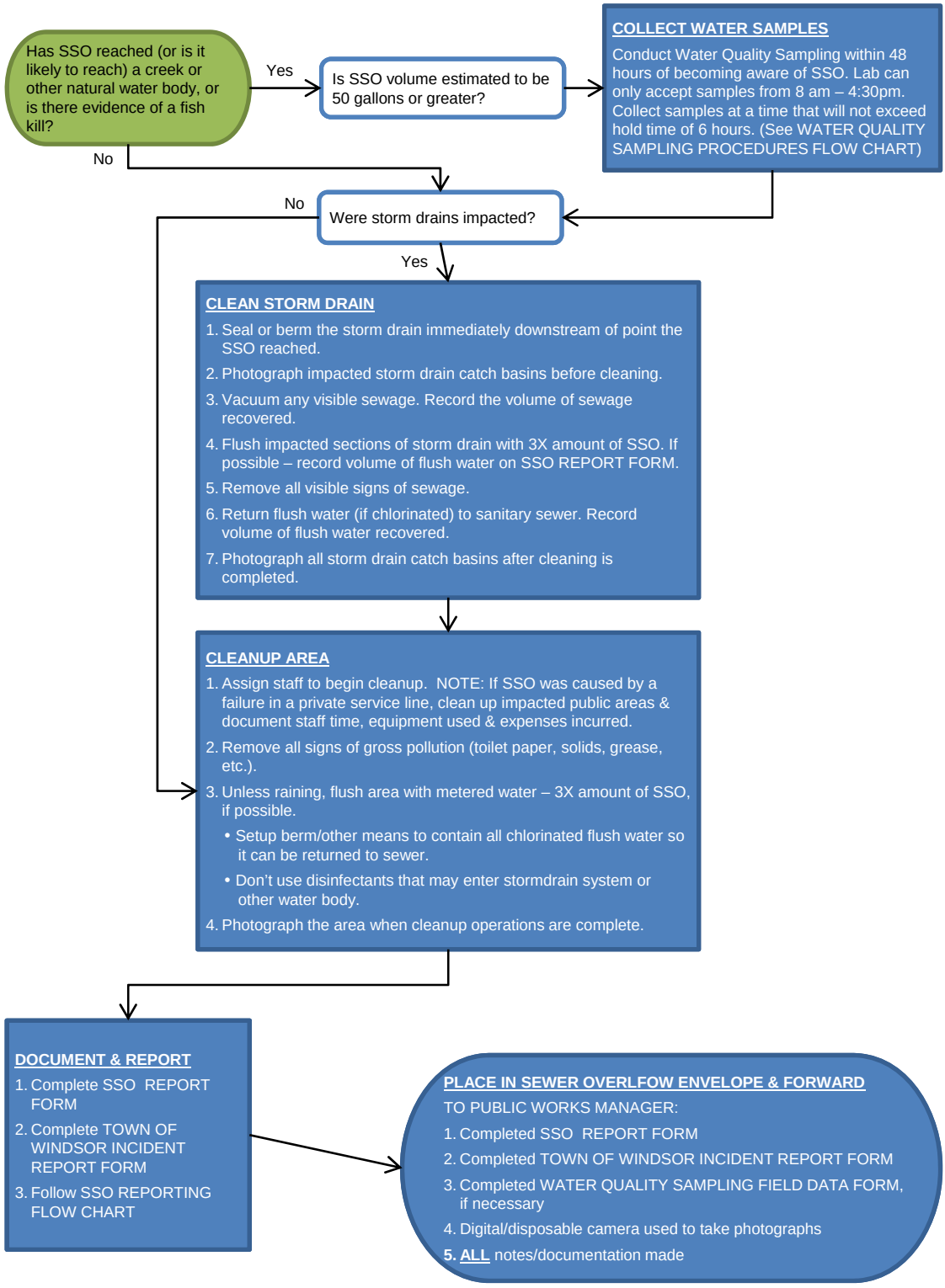
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SSO RESPONSE PROCEDURE FLOW CHART (PAGE 1 OF 2)



SSO RESPONSE PROCEDURE FLOW CHART (PAGE 2 OF 2)



SANITARY SEWER OVERFLOW REPORT

SSO Category *(check one)*: ❑ Category 1 ❑ Category 2 ❑ Category 3

1. SSO EMERGENCY RESPONSE	
Date & time SSO reported to sewer crew:	Date & time sewer crew arrived:
First Responder point of contact (name and cell phone #):	
2. SSO TIME AND LOCATION	
Date & time SSO START:	Date & time SSO END:
SSO Location Description:	
SSO Address (address, city, state, zip):	
3. CAUSE OF SSO	
SSO Appearance Point: □ Building/Structure □ Force Main □ Gravity Sewer □Other Sewer System Structure *(i.e. cleanout)* □Pump Station □ Manhole- Structure ID: □ Other *(specify):*	
Location of Blockage: □ Main □ Lateral □Private Lateral □ Other If private lateral, name of owner/responsible party:	
SSO cause (check all that apply): □ Debris/Blockage □ Flow exceeded capacity □Grease □ Operator error □ Roots □ Pipe problem/failure □ Pump station failure □ Rainfall exceeded design □ Vandalism □ Inflow/infiltration □ Animal carcass □ Electrical power failure □ Bypass □ Debris from laterals □ Construction Debris □ Other (specify):	
Weather conditions prior 72 hours: □Sunny Weather □Cloudy Weather □Measurable Rain □Rain for Several Days	
4. SSO IMPACT	
Final SSO Destination: □ Building structure □ Other paved surface □ Storm drain □ Street/curb & gutter □ Surface water □ Unpaved surface □ Other *(specify)*:	
Approximate SSO discharge rate (gallons per minute): Estimated SSO volume (gal): Est. volume of SSO recovered (gal): Method calculated:	
Estimated volume of water used to flush any storm drains (gal):	
Estimated volume of SSO reaching surface water, drainage channel, or not recovered from a storm drain (gal):	
Name of impacted waters (if applicable): Any fish killed? □ Yes □ No	
Visual inspection result of impacted waters (if applicable):	
Is or may a drinking water supply be impacted by the SSO? □ Yes □ No	
5. SSO RESPONSE	
SSO Response Activities (check all that apply): □ Contained all/portion of SSO □ Restored flow □ Cleaned up □ CCTV inspection □ Returned all of SSO to sanitary sewer □ Returned a portion of SSO to sanitary sewer □Other (specify):	
SSO response completed (date & time):	
Were health warnings posted? □ Yes □ No Health warning posting/details:	
Were samples of impacted waters collected? □ Yes □ No	
Any ongoing investigation? □ Yes □ No If Yes, describe:	
Recommended Corrective Actions: □ Add sewer to PM Program □ Adjust PM schedule □ Adjust PM method □ Spot repair □ Rehab/replace sewer □ Enforcement action against FOG source □ Other (specify):	
Sewer pipe diameter (in inches) and material at point of SSO cause (if applicable):	
Photos taken to document spill volume (Y/N, where stored):	

Neighbors contacted to establish start time, duration, and spill volume of SSO:

6. NOTIFICATION DETAILS

OES contacted date & time (if applicable): OES Control Number (if applicable):

County Health Department contacted date & time (if applicable):

Town of Windsor Incident Report Completed (date & time):

Incident Report Sent to (check all that apply): ☐ REMIF ☐ Admin Service Director ☐ Public Works Director/Town Engineer ☐ Water Systems Supervisor ☐ Public Works Manager

Notes/Sketches

A variety of approaches exist for estimating the volume of a sanitary sewer spill. This appendix documents the three methods that are most often employed. The person preparing the estimate should use the method most appropriate to the sewer overflow in question and use the best information available.

1. Method I: Eyeball Estimate

The volume of small spills can be estimated using an "eyeball estimate". To use this method imagine the amount of water that would spill from a bucket or a barrel. A bucket contains 5 gallons and a barrel contains 50 gallons. If the spill is larger than 50 gallons, try to break the standing water into barrels and then multiply by 50 gallons. This method is useful for contained spills up to approximately 200 gallons.

2. Method II: Measured Volume

The volume of most small spills that have been contained can be estimated using this method. The shape, dimensions, and the depth of the contained wastewater are needed. The shape and dimensions are used to calculate the area of the spills and the depth is used to calculate the volume.

Step 1: Sketch the shape of the contained sewage.

Step 2: Measure or pace off the dimensions.

Step 3: Measure the depth at several locations and select an average.

Step 4: Convert the dimensions, including depth, to feet.

Step 5: Calculate the area in square feet using the following formulas:

Rectangle: Area = length (feet) x width (feet)

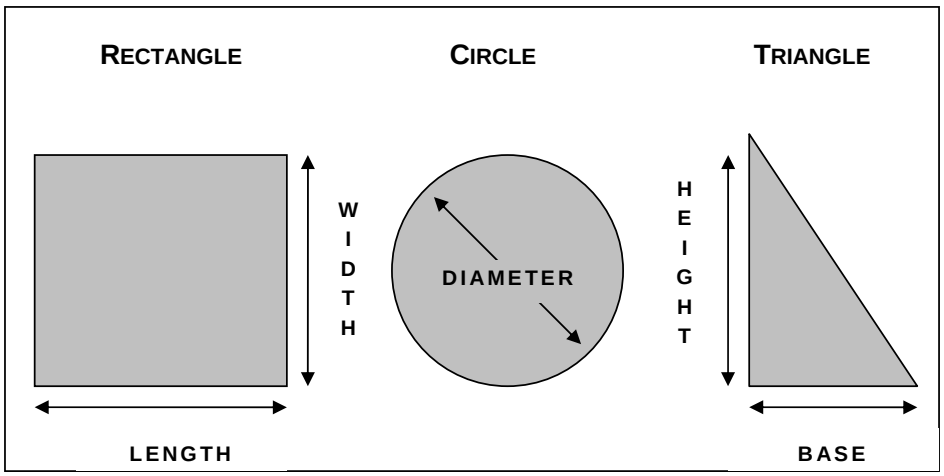
Circle: Area = diameter (feet) x diameter (feet) x 3.14 x .25

Triangle: Area = base (feet) x height (feet) x 0.5

Step 6: Multiply the area (square feet) times the depth (in feet) to obtain the volume in cubic feet.

Step 7: Multiply the volume in cubic feet by 7.5 to convert it to gallons

Figure 1: Common Shapes and Dimensions



3. Method III: Duration and Flowrate

Calculating the volume of larger spills, where it is difficult or impossible to measure the area and depth, requires a different approach. In this method, the separate estimates are made of the duration of the spill and the flowrate. The methods of estimating duration and flowrate are:

Duration: The duration is the elapsed time from the time the spill started to the time that the flow was restored.

Start time: The start time is sometimes difficult to establish. Here are some approaches:

- Local residents can be used to establish start time. Inquire as to their observations. Spills that occur in rights-of-way are usually observed and reported promptly. Spills that occur out of the public view can go on longer. Sometimes observations like odors or sounds (*e.g.*, water running in a normally dry creek bed) can be used to estimate the start time.
- Changes in flow on a downstream flow meter can be used to establish the start time. Typically the daily flow peaks are "cut off" or flattened by the loss of flow. This can be identified by comparing hourly flow data during the spill event with flow data from prior days.
- Conditions at the spill site change over time. Initially there will be limited deposits of toilet paper and other sewage solids. After a few days to a week, the sewage solids form a light-colored residue. After a few weeks to a month, the sewage solids turn dark. The quantity of toilet paper and other materials of sewage origin increase over time. These observations can be used to estimate the start time in the absence of other information. Taking photographs to document the observations can be helpful if questions arise later in the process.

- It is important to remember that spills may not be continuous. Blockages are not usually complete (some flow continues). In this case the spill would occur during the peak flow periods (typically 10:00 to 12:00 and 13:00 to 16:00 each day). Spills that occur due to peak flows in excess of capacity will occur only during, and for a short period after, heavy rainfall.

End time: The end time is usually much easier to establish. Field crews on-site observe the "blow down" that occurs when the blockage has been removed. The "blow down" can also be observed in downstream flow meters.

Flow Rate: The flowrate is the average flow that left the sewer system during the time of the spill. There are three common ways to estimate the flowrate:

- The San Diego Manhole Flowrate Chart: This chart, included below, shows sewage flowing from manhole covers at a variety of flowrates. The observations of the field crew can be used to select the appropriate flowrate from the chart. If possible, photographs are useful in documenting basis for the flowrate estimate.
- Flow meter: Changes in flows in downstream flow meters can be used to estimate the flowrate during the spill.
- Counting Connections: Once the location of the spill is known, the number of upstream connections can be determined from the sewer maps. Multiply the number of connections by 200 to 250 gallons per day per connection or 8 to 10 gallons per hour per connection.

  For example: 22 upstream connections x 9 gallons per hour per connection

  = 198 gallons per hour / 60 minutes per hour

  = 3.3 gallons per minute

Spill Volume: Once duration and flowrate have been estimated, the volume of the spill is the product of the duration in hours or days and the flowrate in gallons per hour or gallons per day.

For example:

Spill start time = 11:00

Spill end time = 14:00

Spill duration = 3 hours

3.3 gallons per minute X 3 hours X 60 minutes per hour

= 594 gallons

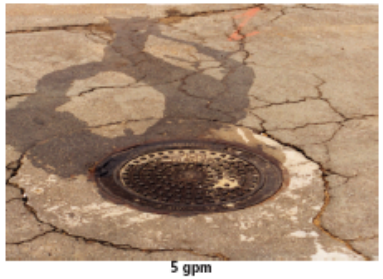
Manhole Overflow Flowrate Guide

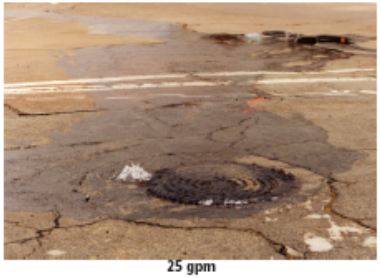
City of San Diego
Metropolitan Wastewater Department

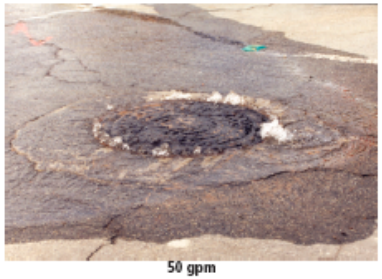
Reference Sheet for Estimating Sewer Spills from Overflowing Sewer Manholes

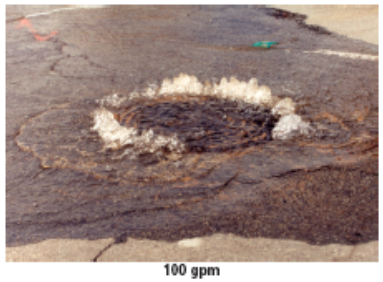
All estimates are calculated in gallons per minute (gpm)

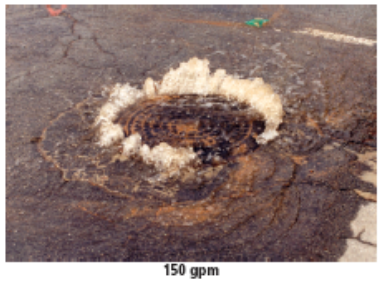
Wastewater Collection Division
(619) 654-4160


5 gpm

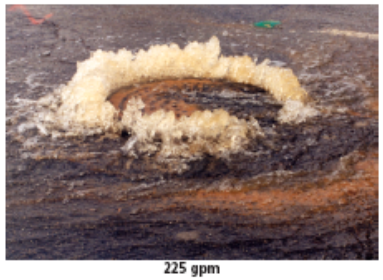

25 gpm

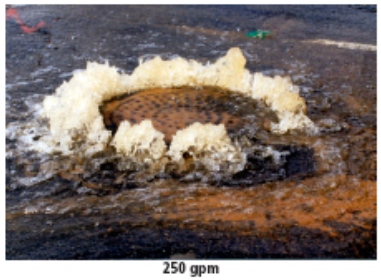

50 gpm

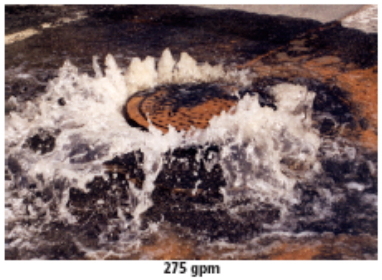

100 gpm


150 gpm


200 gpm


225 gpm


250 gpm


275 gpm

All photos were taken during a demonstration using metered water from a hydrant in cooperation with the City of San Diego's Water Department.

rev. 4/99

WATER QUALITY SAMPLING PROCEDURES

See SSO REPORTING FLOW CHART to determine if water quality sampling is required after an SSO. If water quality sampling is required, conduct sampling within 48 hours of becoming aware of SSO. Lab can only accept samples from 8 am – 4:30pm. Collect samples at a time that will not exceed hold time of 6 hours.

I. Gather Field Sampling Kit

1. **Confirm that field sampling kit includes:**
   - Cooler
   - Personal Protective Equipment (safety glasses, disposable gloves)
   - 9 x 120 mL sterile sample containers containing sodium thiosulfate preservative for bacterial indicators (One each for coliform (total and fecal), E. coli, and Enterococcus)
   - 3 x 1 L plastic bottles for BOD, DO, and pH
   - 3 x 250 mL plastic bottles for Ammonia
   - Sulfuric acid preservative
   - Portable DO-pH meter
   - Ballpoint pen
   - Sharpie
   - Camera
   - Chain of Custody Forms for Town of Windsor Lab and/or Brelje & Race Lab
2. Calibrate pH/DO meter before doing any monitoring (refer to CALIBRATION SOP)
3. Add sulfuric acid preservative to ammonia sample bottles
4. Add ice to cooler. Use enough ice to keep samples below 6°C

II. General Sampling Protocol

1. **Identify Sampling Locations** *Do not put yourself at risk of injury in order to collect a sample*.
   - Sampling should be conducted (in this order):
     1. Upstream of the source of the contamination (SSO)
     2. At the source
     3. Downstream of the source at the approximate current location of contamination, accounting for the velocity of the creek.
   - Location should allow for sample to be taken from the middle of creek and away from debris (if possible)
   - Photograph Sample Locations (if possible) and/or document location on WATER QUALITY SAMPLING FIELD DATA FORM.
   - If sufficient flows do not exist or samples cannot be collected without risk of personal injury, document explanation of infeasibility on WATER QUALITY SAMPLING FIELD DATA FORM.
2. **Label Sample Containers.** Fill out the label on the bottle before collecting samples.
   - Sample ID
   - Sample Collection Date and Time
   - Sample Location (address) and Upstream/Downstream/Source. Include approximate distance from source for upstream and downstream locations.
   - Sampling Parameter
   - Sampler's Initials

III. Bacteria Sample Collection

Put on fresh, clean gloves at each sample location immediately prior to sampling. Do not touch inside the lids or bottles.

1. Three 120 mL sterile plastic sample bottles must be filled at each sample point.
2. Facing upstream, submerge the sample container and fill it underwater, if possible, without losing the preservative.
3. Pour off excess sample volume so that the container is filled to the 100-mL fill line.
4. Immediately place sample inside cooler.

IV. Ammonia Sample Collection

Wear safety glasses and gloves while collecting sample. Sulfuric acid is highly corrosive.

1. One 250 mL plastic bottle must be filled at each sample point.
2. Use the unpreserved 1 L BOD sample bottle to collect a representative sample.

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3. Facing upstream, submerge the unpreserved bottle 6" below the surface (if possible) and fill it underwater.
4. Carefully open the 250 mL plastic bottle containing the sulfuric acid preservative.
5. Slowly transfer sample from unpreserved bottle to 250 mL pre-preserved Ammonia sample bottle.
6. Immediately place sample inside cooler.

V. BOD, DO, and pH Sample Collection

1. One 1 L sample bottle must be filled at each sample point.
2. Facing upstream, submerge the collection bottle 6" below the surface (if possible) and fill it underwater.
3. Place pH/DO probe in the water at the sample location, if possible. Otherwise, place probe inside sample bottle to take readings.
4. Record pH and DO level at time of collection on WQ Sampling Field Data Form
5. Place sample inside cooler.

VI. **Protect and Handle Samples as Required To Represent True Conditions**

- If Town of Windsor Lab is available, fill out Town of Windsor COC Form and deliver to lab within 6 hours (Keep samples at or below 6°C)
- If Town of Windsor Lab is not available, fill out Brelje & Race Lab COC Form. Call lab to notify and deliver within 6 hours (Keep samples at or below 6°C)
  - 425 South E Street, Santa Rosa (707) 544-8807
  - Open daily 8am-5pm (deliver samples prior to 4:30 pm)

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WATER QUALITY SAMPLING FIELD DATA FORM

SSO START TIME – STOP TIME INFORMATION

Estimated SSO start Time: _____:_____ AM PM Date: _____/_____/_____

Estimated SSO end Time: _____:_____ AM PM Date: _____/_____/_____

Affected creek/stream name: _____

Affected watershed name: _____

County: _____ **State:** _____

Latitude: _____ **Longitude:** _____

Approximate size (or distance) of affected area (ft^2 or mi.): _____

Sample site of affected area (description):

_____

_____

_____

SAMPLING INFORMATION, FIELD ANALYSIS

Time: _____:_____ AM PM Date: _____/_____/_____

Sample ID	Sample Location		Sample DO (mg/L)	Sample pH (s.u.)	Sample Temp. (°F)	Sampler's Initials
	Upstream of Source (_____ft)	□ In stream reading □ Sample bottle reading				
	Entry Point	□ In stream reading □ Sample bottle reading				
	Downstream of Source (_____ft)	□ In stream reading □ Sample bottle reading				

Current Stream Flow Conditions:	Past (24-hour) weather:	Current weather:	Forecast (24-hour) weather:
□ Low □ Medium □ High □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____

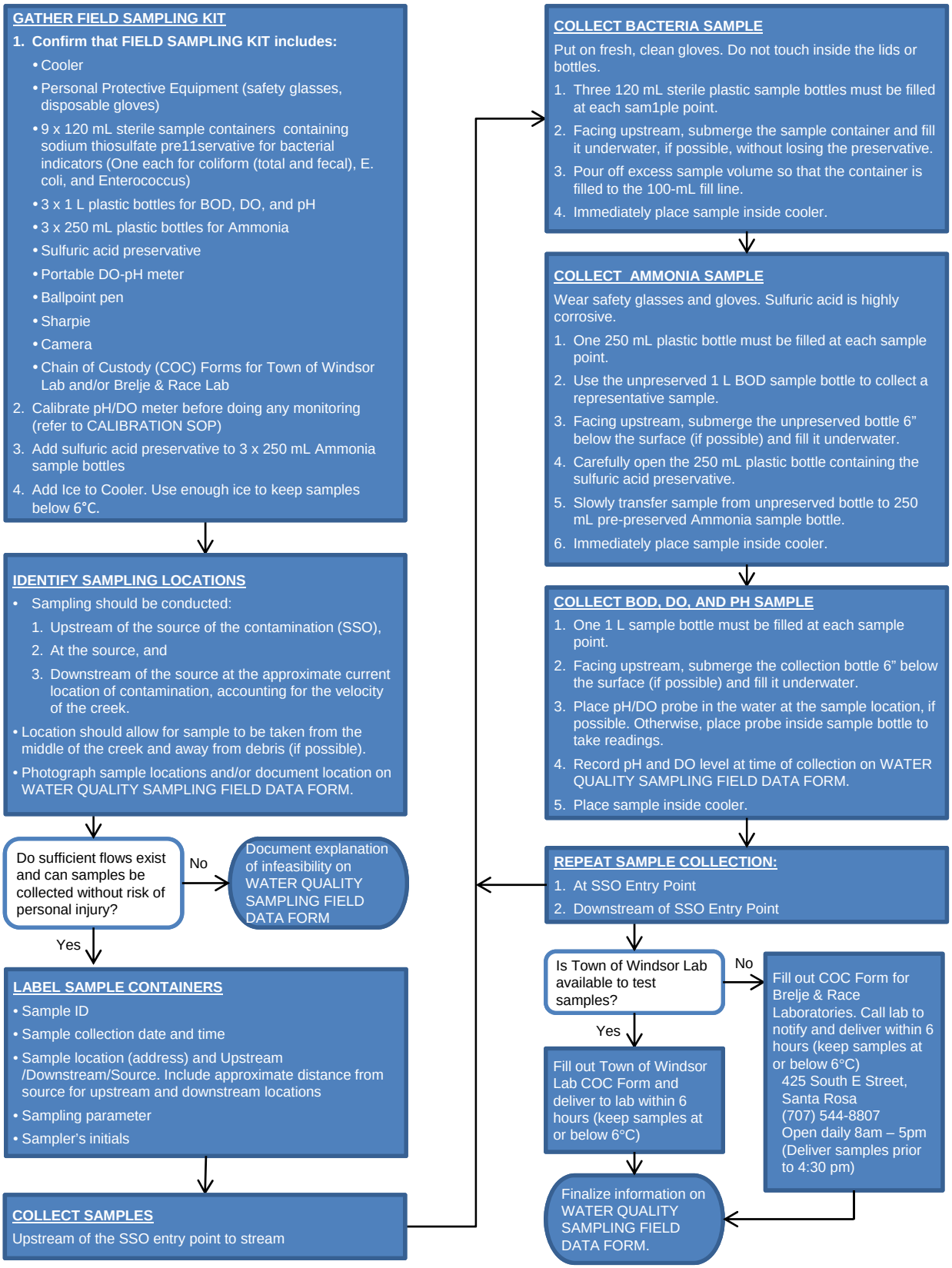
City Results Reported to:
□ County Health
□ Regional Water Quality Control Board
□ Other (as applicable):_____

Attach Google Earth, USGS Topo, or other appropriate map of sampling location(s) or sketch location(s) on back.

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Water Quality Sampling Procedures



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WARNING

SEWAGE SPILL
AREA CLOSED
NO ENTRY

Contaminated Water

DO NOT ingest, wade, swim,
fish or come into contact.

Keep children and pets
out of the area.

Questions concerning exposure, posting and clean-up should be directed to:

Town of Windsor

(707) 838-1000

Monday through Thursday 7:00 AM – 6:00 PM

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TOWN OF WINDSOR

INCIDENT / TRAFFIC ACCIDENT REPORT FORM
TOWN OF WINDSOR

INSTRUCTIONS:

1. All incidents and accidents involving injury to persons (other than Town employees in the line of duty) and/or damage to property, occurring on Town-owned or leased premises or as a result of Town activities, are to be reported to a supervisor and need to be documented on this form. Examples of incidents and accidents include sewer spills, water main breaks, storm damage, and vehicle collisions. Add pages to the form as necessary. Attach copies of police reports, photos and other pertinent documents.
2. **Non emergency** incident/accident occurs during REMIF's normal business hours (8-5, M-F), call **707-539-7017.** If necessary leave a message.
3. **Emergencies, after hours, weekends and holidays,** call Cal North's Claims Adjuster Ed Chasco at **707 548-2165.**
4. If no call back "within half an hour" call Chuck Veader at **707-328-1539.**
5. After an incident/accident, this report must be completed and delivered as soon as possible to: (a) REMIF, (b) the reporting employee's Department Director, and (c) the Administrative Services Director.

A. DESCRIPTION Please Indicate ☐ INCIDENT ☐ TRAFFIC ACCIDENT

1. Person(s) involved in incident/accident:

   1st party name: _____ Age: _____

   If minor, parent's name: _____

   Address: _____

   _____ Phone: _____

   If Town employee: Name _____ Dept _____ Supervisor _____

   2nd party name (if applicable): _____ Age: _____

   If minor, parent's name: _____

   Address: _____

   _____ Phone: _____

2. Date of incident/accident: _____ Time of incident/accident: _____ ☐ AM ☐ PM
3. Location of incident/accident: _____ Town vehicle # _____
4. Description of incident/accident: _____

   _____

   _____

   _____

   Description of injuries: _____

   _____

   _____

   _____

5. Description of property/vehicle damage. If applicable include vehicle owner's name, vehicle license, make and model: _____

   _____

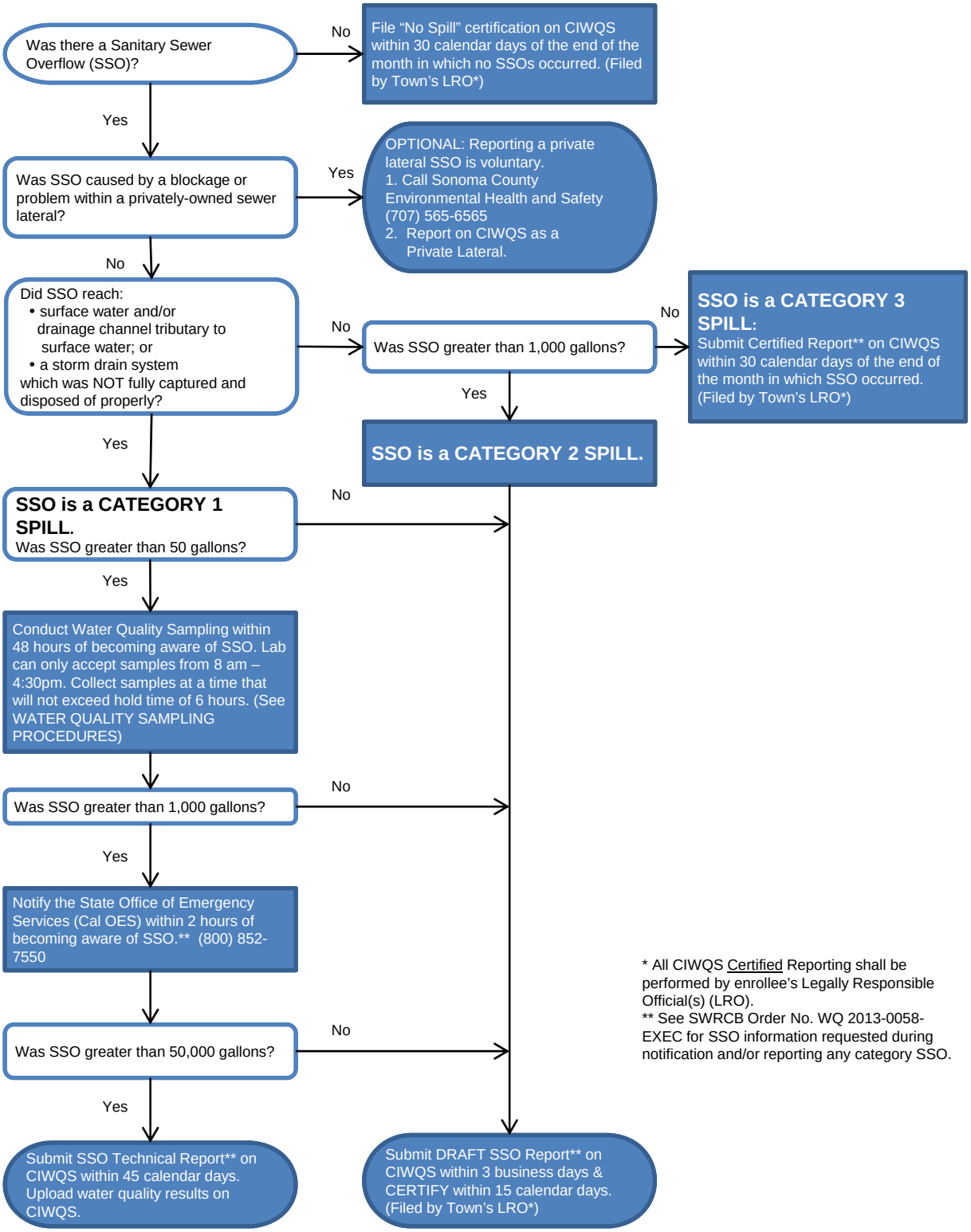
   _____

6. If vehicle accident, other party's insurance company and policy # _____

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SSO REPORTING FLOW CHART



* All CIWQS Certified Reporting shall be performed by enrollee's Legally Responsible Official(s) (LRO).
** See SWRCB Order No. WQ 2013-0058-EXEC for SSO information requested during notification and/or reporting any category SSO.

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STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (hereafter State Water Board) finds:

1. The State Water Board is authorized to prescribe statewide general Waste Discharge Requirements (WDRs) for categories of discharges that involve the same or similar operations and the same or similar types of waste pursuant to Water Code section 13263(i).
2. Water Code section 13193 *et seq.* requires the Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) to gather Sanitary Sewer Overflow (SSO) information and make this information available to the public, including but not limited to, SSO cause, estimated volume, location, date, time, duration, whether or not the SSO reached or may have reached waters of the state, response and corrective action taken, and an enrollee's contact information for each SSO event. An enrollee is defined as the public entity having legal authority over the operation and maintenance of, or capital improvements to, a sanitary sewer system greater than one mile in length.
3. Water Code section 13271, *et seq.* requires notification to the California Office of Emergency Services (Cal OES), formerly the California Emergency Management Agency, for certain unauthorized discharges, including SSOs.
4. On May 2, 2006, the State Water Board adopted Order 2006-0003-DWQ, "Statewide Waste Discharge Requirements for Sanitary Sewer Systems"[1] (hereafter SSS WDRs) to comply with Water Code section 13193 and to establish the framework for the statewide SSO Reduction Program.
5. Subsection G.2 of the SSS WDRs and the Monitoring and Reporting Program (MRP) provide that the Executive Director may modify the terms of the MRP at any time.
6. On February 20, 2008, the State Water Board Executive Director adopted a revised MRP for the SSS WDRs to rectify early notification deficiencies and ensure that first responders are notified in a timely manner of SSOs discharged into waters of the state.
7. When notified of an SSO that reaches a drainage channel or surface water of the state, Cal OES, pursuant to Water Code section 13271(a)(3), forwards the SSO notification information[2] to local government agencies and first responders including local public health officials and the applicable Regional Water Board. Receipt of notifications for a single SSO event from both the SSO reporter

[1] Available for download at:
http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2006/wqo/wqo2006_0003.pdf

[2] Cal OES Hazardous Materials Spill Reports available Online at:
http://w3.calema.ca.gov/operational/malhaz.nsf/$defaultview and http://w3.calema.ca.gov/operational/malhaz.nsf

and Cal OES is duplicative. To address this, the SSO notification requirements added by the February 20, 2008 MRP revision are being removed in this MRP revision.

8. In the February 28, 2008 Memorandum of Agreement between the State Water Board and the California Water and Environment Association (CWEA), the State Water Board committed to re-designing the CIWQS[3] Online SSO Database to allow "event" based SSO reporting versus the original "location" based reporting. Revisions to this MRP and accompanying changes to the CIWQS Online SSO Database will implement this change by allowing for multiple SSO appearance points to be associated with each SSO event caused by a single asset failure.

9. Based on stakeholder input and Water Board staff experience implementing the SSO Reduction Program, SSO categories have been revised in this MRP. In the prior version of the MRP, SSOs have been categorized as Category 1 or Category 2. This MRP implements changes to SSO categories by adding a Category 3 SSO type. This change will improve data management to further assist Water Board staff with evaluation of high threat and low threat SSOs by placing them in unique categories (i.e., Category 1 and Category 3, respectively). This change will also assist enrollees in identifying SSOs that require Cal OES notification.

10. Based on over six years of implementation of the SSS WDRs, the State Water Board concludes that the February 20, 2008 MRP must be updated to better advance the SSO Reduction Program[4] objectives, assess compliance, and enforce the requirements of the SSS WDRs.

IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Water Code section 13267(f), Resolution 2002-0104, and Order 2006-0003-DWQ, the MRP for the SSS WDRs (Order 2006-0003-DWQ) is hereby amended as shown in Attachment A and shall be effective on September 9, 2013.

8/6/13
Date

Thomas Howard
Executive Director

[3] California Integrated Water Quality System (CIWQS) publicly available at http://www.waterboards.ca.gov/ciwqs/publicreports.shtml

[4] Statewide Sanitary Sewer Overflow Reduction Program information is available at: http://www.waterboards.ca.gov/water_issues/programs/sso/

ATTACHMENT A

STATE WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order 2006-0003-DWQ, "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SSS WDRs). This MRP shall be effective from September 9, 2013 until it is rescinded. The Executive Director may make revisions to this MRP at any time. These revisions may include a reduction or increase in the monitoring and reporting requirements. All site specific records and data developed pursuant to the SSS WDRs and this MRP shall be complete, accurate, and justified by evidence maintained by the enrollee. Failure to comply with this MRP may subject an enrollee to civil liabilities of up to $5,000 a day per violation pursuant to Water Code section 13350; up to $1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. The State Water Resources Control Board (State Water Board) reserves the right to take any further enforcement action authorized by law.

A. SUMMARY OF MRP REQUIREMENTS

Table 1 – Spill Categories and Definitions

CATEGORIES	DEFINITIONS [see Section A on page 5 of Order 2006-0003-DWQ, for Sanitary Sewer Overflow (SSO) definition]
CATEGORY 1	Discharges of untreated or partially treated wastewater of **any volume** resulting from an enrollee's sanitary sewer system failure or flow condition that: • Reach surface water and/or reach a drainage channel tributary to a surface water; or • Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
CATEGORY 2	Discharges of untreated or partially treated wastewater of **1,000 gallons or greater** resulting from an enrollee's sanitary sewer system failure or flow condition that **do not** reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION **(see section B of MRP)**	• Within two hours of becoming aware of any Category 1 SSO **greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water**, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.	Call Cal OES at: **(800) 852-7550**
REPORTING **(see section C of MRP)**	• Category 1 SSO: Submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. • Category 2 SSO: Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date. • Category 3 SSO: Submit certified report within 30 calendar days of the end of month in which SSO the occurred. • SSO Technical Report: Submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. • "No Spill" Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. • Collection System Questionnaire: Update and certify every 12 months.	Enter data into the CIWQS Online SSO Database (http://ciwqs.waterboards.ca.gov/), certified by enrollee's Legally Responsible Official(s).
WATER QUALITY MONITORING **(see section D of MRP)**	• Conduct water quality sampling **within 48 hours** after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.	Water quality results are required to be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING **(see section E of MRP)**	• SSO event records. • Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. • Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. • Collection system telemetry records if relied upon to document and/or estimate SSO Volume.	Self-maintained records shall be available during inspections or upon request.

B. NOTIFICATION REQUIREMENTS

Although Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) staff do not have duties as first responders, this MRP is an appropriate mechanism to ensure that the agencies that have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any Category 1 SSO greater than or equal to 1,000 gallons that results in a discharge to a surface water or spilled in a location where it probably will be discharged to surface water, either directly or by way of a drainage channel or MS4, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the Cal OES and obtain a notification control number.

2. To satisfy notification requirements for each applicable SSO, the enrollee shall provide the information requested by Cal OES before receiving a control number. Spill information requested by Cal OES may include:

    i. Name of person notifying Cal OES and direct return phone number.
    ii. Estimated SSO volume discharged (gallons).
    iii. If ongoing, estimated SSO discharge rate (gallons per minute).
    iv. SSO Incident Description:
        a. Brief narrative.
        b. On-scene point of contact for additional information (name and cell phone number).
        c. Date and time enrollee became aware of the SSO.
        d. Name of sanitary sewer system agency causing the SSO.
        e. SSO cause (if known).
    v. Indication of whether the SSO has been contained.
    vi. Indication of whether surface water is impacted.
    vii. Name of surface water impacted by the SSO, if applicable.
    viii. Indication of whether a drinking water supply is or may be impacted by the SSO.
    ix. Any other known SSO impacts.
    x. SSO incident location (address, city, state, and zip code).

3. Following the initial notification to Cal OES and until such time that an enrollee certifies the SSO report in the CIWQS Online SSO Database, the enrollee shall provide updates to Cal OES regarding substantial changes to the estimated volume of untreated or partially treated sewage discharged and any substantial change(s) to known impact(s).

4. PLSDs: The enrollee is strongly encouraged to notify Cal OES of discharges greater than or equal to 1,000 gallons of untreated or partially treated wastewater that result or may result in a discharge to surface water resulting from failures or flow conditions within a privately owned sewer lateral or from other private sewer asset(s) if the enrollee becomes aware of the PLSD.

C. REPORTING REQUIREMENTS

1. **CIWQS Online SSO Database Account:** All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS. These accounts allow controlled and secure entry into the CIWQS Online SSO Database.

2. **SSO Mandatory Reporting Information:** For reporting purposes, if one SSO event results in multiple appearance points in a sewer system asset, the enrollee shall complete one SSO report in the CIWQS Online SSO Database which includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO, and provide descriptions of the locations of all other discharge points associated with the SSO event.

3. **SSO Categories**

   i. **Category 1** – Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:

      a. Reach surface water and/or reach a drainage channel tributary to a surface water; or

      b. Reach a MS4 and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

   ii. **Category 2** – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from an enrollee's sanitary sewer system failure or flow condition that does not reach a surface water, a drainage channel, or the MS4 unless the entire SSO volume discharged to the storm drain system is fully recovered and disposed of properly.

   iii. **Category 3** – All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.

4. **Sanitary Sewer Overflow Reporting to CIWQS - Timeframes**

   i. **Category 1 and Category 2 SSOs** – All SSOs that meet the above criteria for Category 1 or Category 2 SSOs shall be reported to the CIWQS Online SSO Database:

      a. Draft reports for Category 1 and Category 2 SSOs shall be submitted to the CIWQS Online SSO Database within three (3) business days of the enrollee becoming aware of the SSO. Minimum information that shall be reported in a draft Category 1 SSO report shall include all information identified in section 8.i.a. below. Minimum information that shall be reported in a Category 2 SSO draft report shall include all information identified in section 8.i.c below.

      b. A final Category 1 or Category 2 SSO report shall be certified through the CIWQS Online SSO Database within 15 calendar days of the end date of the SSO. Minimum information that shall be certified in the final Category 1 SSO report shall include all information identified in section 8.i.b below. Minimum information that shall be certified in a final Category 2 SSO report shall include all information identified in section 8.i.d below.

ii. **Category 3 SSOs** – All SSOs that meet the above criteria for Category 3 SSOs shall be reported to the CIWQS Online SSO Database and certified within 30 calendar days after the end of the calendar month in which the SSO occurs (e.g., all Category 3 SSOs occurring in the month of February shall be entered into the database and certified by March 30). Minimum information that shall be certified in a final Category 3 SSO report shall include all information identified in section 8.i.e below.

iii. **"No Spill" Certification** – If there are no SSOs during the calendar month, the enrollee shall either 1) certify, within 30 calendar days after the end of each calendar month, a "No Spill" certification statement in the CIWQS Online SSO Database certifying that there were no SSOs for the designated month, or 2) certify, quarterly within 30 calendar days after the end of each quarter, "No Spill" certification statements in the CIWQS Online SSO Database certifying that there were no SSOs for each month in the quarter being reported on. For quarterly reporting, the quarters are Q1 - January/ February/ March, Q2 - April/May/June, Q3 - July/August/September, and Q4 - October/November/December.

If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee shall still certify a "No Spill" certification statement for that month.

iv. **Amended SSO Reports** – The enrollee may update or add additional information to a certified SSO report within 120 calendar days after the SSO end date by amending the report or by adding an attachment to the SSO report in the CIWQS Online SSO Database. SSO reports certified in the CIWQS Online SSO Database prior to the adoption date of this MRP may only be amended up to 120 days after the effective date of this MRP. After 120 days, the enrollee may contact the SSO Program Manager to request to amend an SSO report if the enrollee also submits justification for why the additional information was not available prior to the end of the 120 days.

5. **SSO Technical Report**

The enrollee shall submit an SSO Technical Report in the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

i. **Causes and Circumstances of the SSO:**

a. Complete and detailed explanation of how and when the SSO was discovered.

b. Diagram showing the SSO failure point, appearance point(s), and final destination(s).

c. Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.

d. Detailed description of the cause(s) of the SSO.

e. Copies of original field crew records used to document the SSO.

f. Historical maintenance records for the failure location.

ii. **Enrollee's Response to SSO:**

a. Chronological narrative description of all actions taken by enrollee to terminate the spill.

b. Explanation of how the SSMP Overflow Emergency Response plan was implemented to respond to and mitigate the SSO.

c. Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

iii. **Water Quality Monitoring:**

a. Description of all water quality sampling activities conducted including analytical results and evaluation of the results.

b. Detailed location map illustrating all water quality sampling points.

6. **PLSDs**

Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sanitary sewer system assets may be voluntarily reported to the CIWQS Online SSO Database.

i. The enrollee is also encouraged to provide notification to Cal OES per section B above when a PLSD greater than or equal to 1,000 gallons has or may result in a discharge to surface water. For any PLSD greater than or equal to 1,000 gallons regardless of the spill destination, the enrollee is also encouraged to file a spill report as required by Health and Safety Code section 5410 et. seq. and Water Code section 13271, or notify the responsible party that notification and reporting should be completed as specified above and required by State law.

ii. If a PLSD is recorded in the CIWQS Online SSO Database, the enrollee must identify the sewage discharge as occurring and caused by a private sanitary sewer system asset and should identify a responsible party (other than the enrollee), if known. Certification of PLSD reports by enrollees is not required.

7. **CIWQS Online SSO Database Unavailability**

In the event that the CIWQS Online SSO Database is not available, the enrollee must fax or e-mail all required information to the appropriate Regional Water Board office in accordance with the time schedules identified herein. In such event, the enrollee must also enter all required information into the CIWQS Online SSO Database when the database becomes available.

8. **Mandatory Information to be Included in CIWQS Online SSO Reporting**

All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS which can be reached at CIWQS@waterboards.ca.gov or by calling (866) 792-4977, M-F, 8 A.M. to 5 P.M. These accounts will allow controlled and secure entry into the CIWQS Online SSO Database. Additionally, within thirty (30) days of initial enrollment and prior to recording SSOs into the CIWQS Online SSO Database, all enrollees must complete a Collection System Questionnaire (Questionnaire). The Questionnaire shall be updated at least once every 12 months.

i. **SSO Reports**

At a minimum, the following mandatory information shall be reported prior to finalizing and certifying an SSO report for each category of SSO:

a. **Draft Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 1 SSO report:

1. SSO Contact Information: Name and telephone number of enrollee contact person who can answer specific questions about the SSO being reported.
2. SSO Location Name.
3. Location of the overflow event (SSO) by entering GPS coordinates. If a single overflow event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the SSO appearance point explanation field.
4. Whether or not the SSO reached surface water, a drainage channel, or entered and was discharged from a drainage structure.
5. Whether or not the SSO reached a municipal separate storm drain system.
6. Whether or not the total SSO volume that reached a municipal separate storm drain system was fully recovered.
7. Estimate of the SSO volume, inclusive of all discharge point(s).
8. Estimate of the SSO volume that reached surface water, a drainage channel, or was not recovered from a storm drain.
9. Estimate of the SSO volume recovered (if applicable).
10. Number of SSO appearance point(s).
11. Description and location of SSO appearance point(s). If a single sanitary sewer system failure results in multiple SSO appearance points, each appearance point must be described.
12. SSO start date and time.
13. Date and time the enrollee was notified of, or self-discovered, the SSO.
14. Estimated operator arrival time.
15. For spills greater than or equal to 1,000 gallons, the date and time Cal OES was called.
16. For spills greater than or equal to 1,000 gallons, the Cal OES control number.

b. **Certified Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 1 SSO report, in addition to all fields in section 8.i.a :

1. Description of SSO destination(s).
2. SSO end date and time.
3. SSO causes (mainline blockage, roots, etc.).
4. SSO failure point (main, lateral, etc.).
5. Whether or not the spill was associated with a storm event.
6. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the overflow; and a schedule of major milestones for those steps.
7. Description of spill response activities.
8. Spill response completion date.
9. Whether or not there is an ongoing investigation, the reasons for the investigation and the expected date of completion.

10. Whether or not a beach closure occurred or may have occurred as a result of the SSO.
11. Whether or not health warnings were posted as a result of the SSO.
12. Name of beach(es) closed and/or impacted. If no beach was impacted, NA shall be selected.
13. Name of surface water(s) impacted.
14. If water quality samples were collected, identify parameters the water quality samples were analyzed for. If no samples were taken, NA shall be selected.
15. If water quality samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA shall be selected.
16. Description of methodology(ies) and type of data relied upon for estimations of the SSO volume discharged and recovered.
17. SSO Certification: Upon SSO Certification, the CIWQS Online SSO Database will issue a final SSO identification (ID) number.

c. **Draft Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 2 SSO report:

1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO.

d. **Certified Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 2 SSO report:

1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-9, and 17 in section 8.i.b above for Certified Category 1 SSO.

e. **Certified Category 3 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 3 SSO report:

1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-5, and 17 in section 8.i.b above for Certified Category 1 SSO.

ii. **Reporting SSOs to Other Regulatory Agencies**

These reporting requirements do not preclude an enrollee from reporting SSOs to other regulatory agencies pursuant to state law. In addition, these reporting requirements do not replace other Regional Water Board notification and reporting requirements for SSOs.

iii. **Collection System Questionnaire**

The required Questionnaire (see subsection G of the SSS WDRs) provides the Water Boards with site-specific information related to the enrollee's sanitary sewer system. The enrollee shall complete and certify the Questionnaire at least every 12 months to facilitate program implementation, compliance assessment, and enforcement response.

iv. **SSMP Availability**

The enrollee shall provide the publicly available internet web site address to the CIWQS Online SSO Database where a downloadable copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP is posted. If all of the SSMP documentation listed in this subsection is not publicly available on the Internet, the enrollee shall comply with the following procedure:

a. Submit an **electronic** copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP to the State Water Board, within 30 days of that approval and within 30 days of any subsequent SSMP re-certifications, to the following mailing address:

State Water Resources Control Board
Division of Water Quality
Attn: SSO Program Manager
1001 I Street, 15th Floor, Sacramento, CA 95814

D. WATER QUALITY MONITORING REQUIREMENTS:

To comply with subsection D.7(v) of the SSS WDRs, the enrollee shall develop and implement an SSO Water Quality Monitoring Program to assess impacts from SSOs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSO Water Quality Monitoring Program, shall, at a minimum:

1. Contain protocols for water quality monitoring.
2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).
3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
5. Within 48 hours of the enrollee becoming aware of the SSO, require water quality sampling for, at a minimum, the following constituents:
   i. Ammonia
   ii. Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and e-coli.

E. RECORD KEEPING REQUIREMENTS:

The following records shall be maintained by the enrollee for a minimum of five (5) years and shall be made available for review by the Water Boards during an onsite inspection or through an information request:

1. General Records: The enrollee shall maintain records to document compliance with all provisions of the SSS WDRs and this MRP for each sanitary sewer system owned including any required records generated by an enrollee's sanitary sewer system contractor(s).
2. SSO Records: The enrollee shall maintain records for each SSO event, including but not limited to:
   i. Complaint records documenting how the enrollee responded to all notifications of possible or actual SSOs, both during and after business hours, including complaints that do not

result in SSOs. Each complaint record shall, at a minimum, include the following information:

a. Date, time, and method of notification.

b. Date and time the complainant or informant first noticed the SSO.

c. Narrative description of the complaint, including any information the caller can provide regarding whether or not the complainant or informant reporting the potential SSO knows if the SSO has reached surface waters, drainage channels or storm drains.

d. Follow-up return contact information for complainant or informant for each complaint received, if not reported anonymously.

e. Final resolution of the complaint.

ii. Records documenting steps and/or remedial actions undertaken by enrollee, using all available information, to comply with section D.7 of the SSS WDRs.

iii. Records documenting how all estimate(s) of volume(s) discharged and, if applicable, volume(s) recovered were calculated.

3. Records documenting all changes made to the SSMP since its last certification indicating when a subsection(s) of the SSMP was changed and/or updated and who authorized the change or update. These records shall be attached to the SSMP.

4. Electronic monitoring records relied upon for documenting SSO events and/or estimating the SSO volume discharged, including, but not limited to records from:

i. Supervisory Control and Data Acquisition (SCADA) systems

ii. Alarm system(s)

iii. Flow monitoring device(s) or other instrument(s) used to estimate wastewater levels, flow rates and/or volumes.

F. CERTIFICATION

1. All information required to be reported into the CIWQS Online SSO Database shall be certified by a person designated as described in subsection J of the SSS WDRs. This designated person is also known as a Legally Responsible Official (LRO). An enrollee may have more than one LRO.

2. Any designated person (i.e. an LRO) shall be registered with the State Water Board to certify reports in accordance with the CIWQS protocols for reporting.

3. Data Submitter (DS): Any enrollee employee or contractor may enter draft data into the CIWQS Online SSO Database on behalf of the enrollee if authorized by the LRO and registered with the State Water Board. However, only LROs may certify reports in CIWQS.

4. The enrollee shall maintain continuous coverage by an LRO. Any change of a registered LRO or DS (e.g., retired staff), including deactivation or a change to the LRO's or DS's contact information, shall be submitted by the enrollee to the State Water Board within 30 days of the change by calling (866) 792-4977 or e-mailing help@ciwqs.waterboards.ca.gov.

5. A registered designated person (i.e., an LRO) shall certify all required reports under penalty of perjury laws of the state as stated in the CIWQS Online SSO Database at the time of certification.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Resources Control Board.

7/30/13
Date

Jeanine Townsend
Clerk to the Board

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SANITARY SEWER OVERFLOW REPORT

SSO Category *(check one)*: ❑ Category 1 ❑ Category 2 ❑ Category 3

1. SSO EMERGENCY RESPONSE	
Date & time SSO reported to sewer crew:	Date & time sewer crew arrived:
First Responder point of contact (name and cell phone #):	
2. SSO TIME AND LOCATION	
Date & time SSO START:	Date & time SSO END:
SSO Location Description:	
SSO Address (address, city, state, zip):	
3. CAUSE OF SSO	
SSO Appearance Point: □ Building/Structure □ Force Main □ Gravity Sewer □Other Sewer System Structure *(i.e. cleanout)* □Pump Station □ Manhole- Structure ID: □ Other *(specify):*	
Location of Blockage: □ Main □ Lateral □Private Lateral □ Other If private lateral, name of owner/responsible party:	
SSO cause (check all that apply): □ Debris/Blockage □ Flow exceeded capacity □Grease □ Operator error □ Roots □ Pipe problem/failure □ Pump station failure □ Rainfall exceeded design □ Vandalism □ Inflow/infiltration □ Animal carcass □ Electrical power failure □ Bypass □ Debris from laterals □ Construction Debris □ Other (specify):	
Weather conditions prior 72 hours: □Sunny Weather □Cloudy Weather □Measurable Rain □Rain for Several Days	
4. SSO IMPACT	
Final SSO Destination: □ Building structure □ Other paved surface □ Storm drain □ Street/curb & gutter □ Surface water □ Unpaved surface □ Other *(specify)*:	
Approximate SSO discharge rate (gallons per minute): Estimated SSO volume (gal): Est. volume of SSO recovered (gal): Method calculated:	
Estimated volume of water used to flush any storm drains (gal):	
Estimated volume of SSO reaching surface water, drainage channel, or not recovered from a storm drain (gal):	
Name of impacted waters (if applicable): Any fish killed? □ Yes □ No	
Visual inspection result of impacted waters (if applicable):	
Is or may a drinking water supply be impacted by the SSO? □ Yes □ No	
5. SSO RESPONSE	
SSO Response Activities (check all that apply): □ Contained all/portion of SSO □ Restored flow □ Cleaned up □ CCTV inspection □ Returned all of SSO to sanitary sewer □ Returned a portion of SSO to sanitary sewer □Other (specify):	
SSO response completed (date & time):	
Were health warnings posted? □ Yes □ No Health warning posting/details:	
Were samples of impacted waters collected? □ Yes □ No	
Any ongoing investigation? □ Yes □ No If Yes, describe:	
Recommended Corrective Actions: □ Add sewer to PM Program □ Adjust PM schedule □ Adjust PM method □ Spot repair □ Rehab/replace sewer □ Enforcement action against FOG source □ Other (specify):	
Sewer pipe diameter (in inches) and material at point of SSO cause (if applicable):	
Photos taken to document spill volume (Y/N, where stored):	

Neighbors contacted to establish start time, duration, and spill volume of SSO:

6. NOTIFICATION DETAILS

OES contacted date & time (if applicable): OES Control Number (if applicable):

County Health Department contacted date & time (if applicable):

Town of Windsor Incident Report Completed (date & time):

Incident Report Sent to (check all that apply): ☐ REMIF ☐ Admin Service Director ☐ Public Works Director/Town Engineer ☐ Water Systems Supervisor ☐ Public Works Manager

Notes/Sketches

A variety of approaches exist for estimating the volume of a sanitary sewer spill. This appendix documents the three methods that are most often employed. The person preparing the estimate should use the method most appropriate to the sewer overflow in question and use the best information available.

1. Method I: Eyeball Estimate

The volume of small spills can be estimated using an "eyeball estimate". To use this method imagine the amount of water that would spill from a bucket or a barrel. A bucket contains 5 gallons and a barrel contains 50 gallons. If the spill is larger than 50 gallons, try to break the standing water into barrels and then multiply by 50 gallons. This method is useful for contained spills up to approximately 200 gallons.

2. Method II: Measured Volume

The volume of most small spills that have been contained can be estimated using this method. The shape, dimensions, and the depth of the contained wastewater are needed. The shape and dimensions are used to calculate the area of the spills and the depth is used to calculate the volume.

Step 1: Sketch the shape of the contained sewage.

Step 2: Measure or pace off the dimensions.

Step 3: Measure the depth at several locations and select an average.

Step 4: Convert the dimensions, including depth, to feet.

Step 5: Calculate the area in square feet using the following formulas:

Rectangle: Area = length (feet) x width (feet)

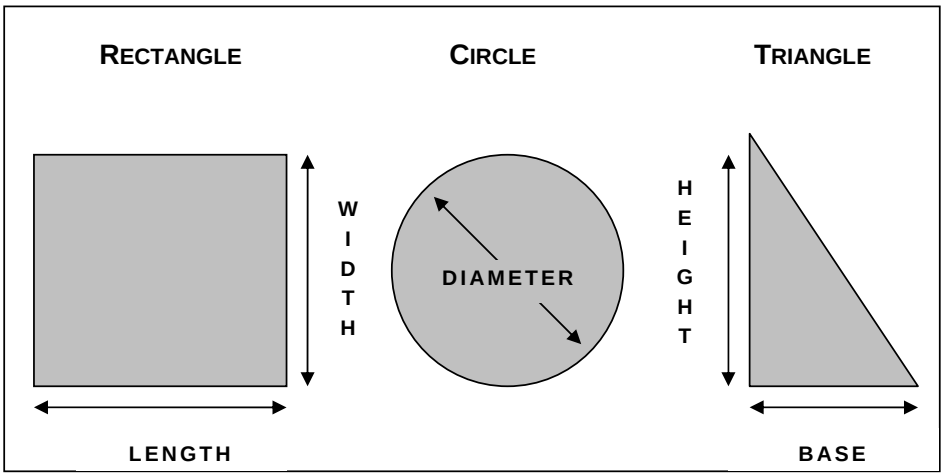
Circle: Area = diameter (feet) x diameter (feet) x 3.14 x .25

Triangle: Area = base (feet) x height (feet) x 0.5

Step 6: Multiply the area (square feet) times the depth (in feet) to obtain the volume in cubic feet.

Step 7: Multiply the volume in cubic feet by 7.5 to convert it to gallons

Figure 1: Common Shapes and Dimensions



3. Method III: Duration and Flowrate

Calculating the volume of larger spills, where it is difficult or impossible to measure the area and depth, requires a different approach. In this method, the separate estimates are made of the duration of the spill and the flowrate. The methods of estimating duration and flowrate are:

Duration: The duration is the elapsed time from the time the spill started to the time that the flow was restored.

Start time: The start time is sometimes difficult to establish. Here are some approaches:

- Local residents can be used to establish start time. Inquire as to their observations. Spills that occur in rights-of-way are usually observed and reported promptly. Spills that occur out of the public view can go on longer. Sometimes observations like odors or sounds (*e.g.*, water running in a normally dry creek bed) can be used to estimate the start time.
- Changes in flow on a downstream flow meter can be used to establish the start time. Typically the daily flow peaks are "cut off" or flattened by the loss of flow. This can be identified by comparing hourly flow data during the spill event with flow data from prior days.
- Conditions at the spill site change over time. Initially there will be limited deposits of toilet paper and other sewage solids. After a few days to a week, the sewage solids form a light-colored residue. After a few weeks to a month, the sewage solids turn dark. The quantity of toilet paper and other materials of sewage origin increase over time. These observations can be used to estimate the start time in the absence of other information. Taking photographs to document the observations can be helpful if questions arise later in the process.

- It is important to remember that spills may not be continuous. Blockages are not usually complete (some flow continues). In this case the spill would occur during the peak flow periods (typically 10:00 to 12:00 and 13:00 to 16:00 each day). Spills that occur due to peak flows in excess of capacity will occur only during, and for a short period after, heavy rainfall.

End time: The end time is usually much easier to establish. Field crews on-site observe the "blow down" that occurs when the blockage has been removed. The "blow down" can also be observed in downstream flow meters.

Flow Rate: The flowrate is the average flow that left the sewer system during the time of the spill. There are three common ways to estimate the flowrate:

- The San Diego Manhole Flowrate Chart: This chart, included as Attachment ___, shows sewage flowing from manhole covers at a variety of flowrates. The observations of the field crew can be used to select the appropriate flowrate from the chart. If possible, photographs are useful in documenting basis for the flowrate estimate.
- Flow meter: Changes in flows in downstream flow meters can be used to estimate the flowrate during the spill.
- Counting Connections: Once the location of the spill is known, the number of upstream connections can be determined from the sewer maps. Multiply the number of connections by 200 to 250 gallons per day per connection or 8 to 10 gallons per hour per connection.

  For example: 22 upstream connections x 9 gallons per hour per connection

  = 198 gallons per hour / 60 minutes per hour

  = 3.3 gallons per minute

Spill Volume: Once duration and flowrate have been estimated, the volume of the spill is the product of the duration in hours or days and the flowrate in gallons per hour or gallons per day.

For example:

Spill start time = 11:00

Spill end time = 14:00

Spill duration = 3 hours

3.3 gallons per minute X 3 hours X 60 minutes per hour

= 594 gallons

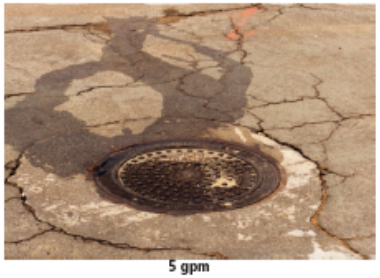
Manhole Overflow Flowrate Guide

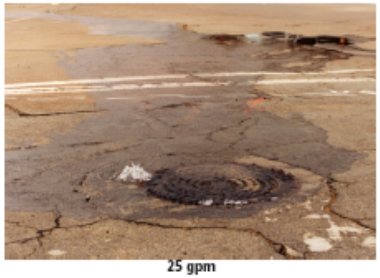
City of San Diego
Metropolitan Wastewater Department

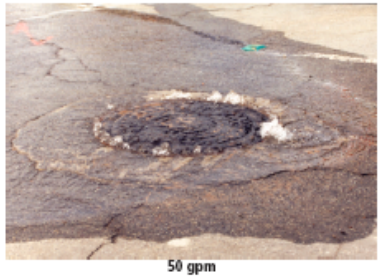
Reference Sheet for Estimating Sewer Spills from Overflowing Sewer Manholes

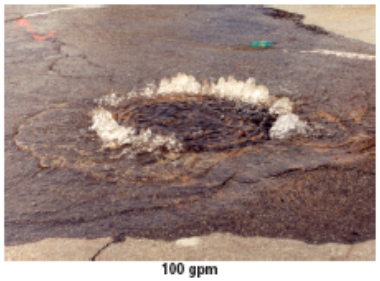
All estimates are calculated in gallons per minute (gpm)

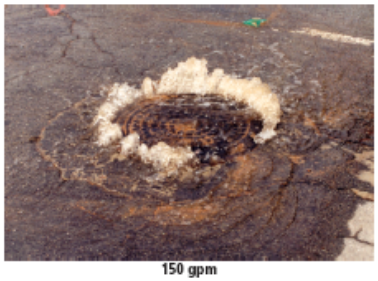
Wastewater Collection Division
(619) 654-4160


5 gpm

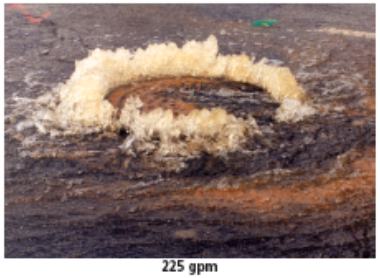

25 gpm

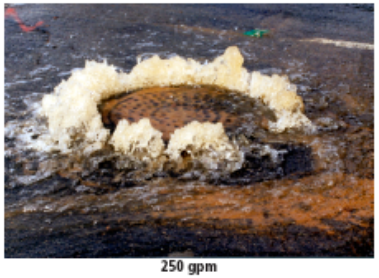

50 gpm

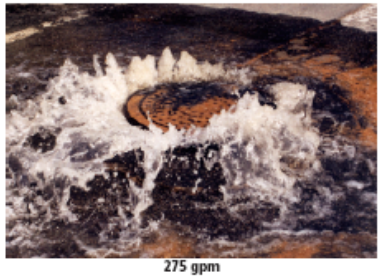

100 gpm


150 gpm


200 gpm


225 gpm


250 gpm


275 gpm

All photos were taken during a demonstration using metered water from a hydrant in cooperation with the City of San Diego's Water Department.

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WATER QUALITY SAMPLING PROCEDURES

See SSO REPORTING FLOW CHART to determine if water quality sampling is required after an SSO. If water quality sampling is required, conduct sampling within 48 hours of becoming aware of SSO. Lab can only accept samples from 8 am – 4:30pm. Collect samples at a time that will not exceed hold time of 6 hours.

I. Gather Field Sampling Kit

1. **Confirm that field sampling kit includes:**
   - Cooler
   - Personal Protective Equipment (safety glasses, disposable gloves)
   - 9 x 120 mL sterile sample containers containing sodium thiosulfate preservative for bacterial indicators (One each for coliform (total and fecal), E. coli, and Enterococcus)
   - 3 x 1 L plastic bottles for BOD, DO, and pH
   - 3 x 250 mL plastic bottles for Ammonia
   - Sulfuric acid preservative
   - Portable DO-pH meter
   - Ballpoint pen
   - Sharpie
   - Camera
   - Chain of Custody Forms for Town of Windsor Lab and/or Brelje & Race Lab
2. Calibrate pH/DO meter before doing any monitoring (refer to CALIBRATION SOP)
3. Add sulfuric acid preservative to ammonia sample bottles
4. Add ice to cooler. Use enough ice to keep samples below 6°C

II. General Sampling Protocol

1. **Identify Sampling Locations** *Do not put yourself at risk of injury in order to collect a sample*.
   - Sampling should be conducted (in this order):
     1. Upstream of the source of the contamination (SSO)
     2. At the source
     3. Downstream of the source at the approximate current location of contamination, accounting for the velocity of the creek.
   - Location should allow for sample to be taken from the middle of creek and away from debris (if possible)
   - Photograph Sample Locations (if possible) and/or document location on WATER QUALITY SAMPLING FIELD DATA FORM.
   - If sufficient flows do not exist or samples cannot be collected without risk of personal injury, document explanation of infeasibility on WATER QUALITY SAMPLING FIELD DATA FORM.
2. **Label Sample Containers.** Fill out the label on the bottle before collecting samples.
   - Sample ID
   - Sample Collection Date and Time
   - Sample Location (address) and Upstream/Downstream/Source. Include approximate distance from source for upstream and downstream locations.
   - Sampling Parameter
   - Sampler's Initials

III. Bacteria Sample Collection

Put on fresh, clean gloves at each sample location immediately prior to sampling. Do not touch inside the lids or bottles.

1. Three 120 mL sterile plastic sample bottles must be filled at each sample point.
2. Facing upstream, submerge the sample container and fill it underwater, if possible, without losing the preservative.
3. Pour off excess sample volume so that the container is filled to the 100-mL fill line.
4. Immediately place sample inside cooler.

IV. Ammonia Sample Collection

Wear safety glasses and gloves while collecting sample. Sulfuric acid is highly corrosive.

1. One 250 mL plastic bottle must be filled at each sample point.
2. Use the unpreserved 1 L BOD sample bottle to collect a representative sample.

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3. Facing upstream, submerge the unpreserved bottle 6" below the surface (if possible) and fill it underwater.
4. Carefully open the 250 mL plastic bottle containing the sulfuric acid preservative.
5. Slowly transfer sample from unpreserved bottle to 250 mL pre-preserved Ammonia sample bottle.
6. Immediately place sample inside cooler.

V. BOD, DO, and pH Sample Collection

1. One 1 L sample bottle must be filled at each sample point.
2. Facing upstream, submerge the collection bottle 6" below the surface (if possible) and fill it underwater.
3. Place pH/DO probe in the water at the sample location, if possible. Otherwise, place probe inside sample bottle to take readings.
4. Record pH and DO level at time of collection on WQ Sampling Field Data Form
5. Place sample inside cooler.

VI. **Protect and Handle Samples as Required To Represent True Conditions**

- If Town of Windsor Lab is available, fill out Town of Windsor COC Form and deliver to lab within 6 hours (Keep samples at or below 6°C)
- If Town of Windsor Lab is not available, fill out Brelje & Race Lab COC Form. Call lab to notify and deliver within 6 hours (Keep samples at or below 6°C)
  - 425 South E Street, Santa Rosa (707) 544-8807
  - Open daily 8am-5pm (deliver samples prior to 4:30 pm)

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WATER QUALITY SAMPLING FIELD DATA FORM

SSO START TIME – STOP TIME INFORMATION

Estimated SSO start Time: _____:_____ AM PM Date: _____/_____/_____

Estimated SSO end Time: _____:_____ AM PM Date: _____/_____/_____

Affected creek/stream name: _____

Affected watershed name: _____

County: _____ **State:** _____

Latitude: _____ **Longitude:** _____

Approximate size (or distance) of affected area (ft^2 or mi.): _____

Sample site of affected area (description):

_____

_____

_____

SAMPLING INFORMATION, FIELD ANALYSIS

Time: _____:_____ AM PM Date: _____/_____/_____

Sample ID	Sample Location		Sample DO (mg/L)	Sample pH (s.u.)	Sample Temp. (°F)	Sampler's Initials
	Upstream of Source (_____ft)	□ In stream reading □ Sample bottle reading				
	Entry Point	□ In stream reading □ Sample bottle reading				
	Downstream of Source (_____ft)	□ In stream reading □ Sample bottle reading				

Current Stream Flow Conditions:	Past (24-hour) weather:	Current weather:	Forecast (24-hour) weather:
□ Low □ Medium □ High □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____	□ Heavy rain □ Light rain □ No rain □ Other: _____

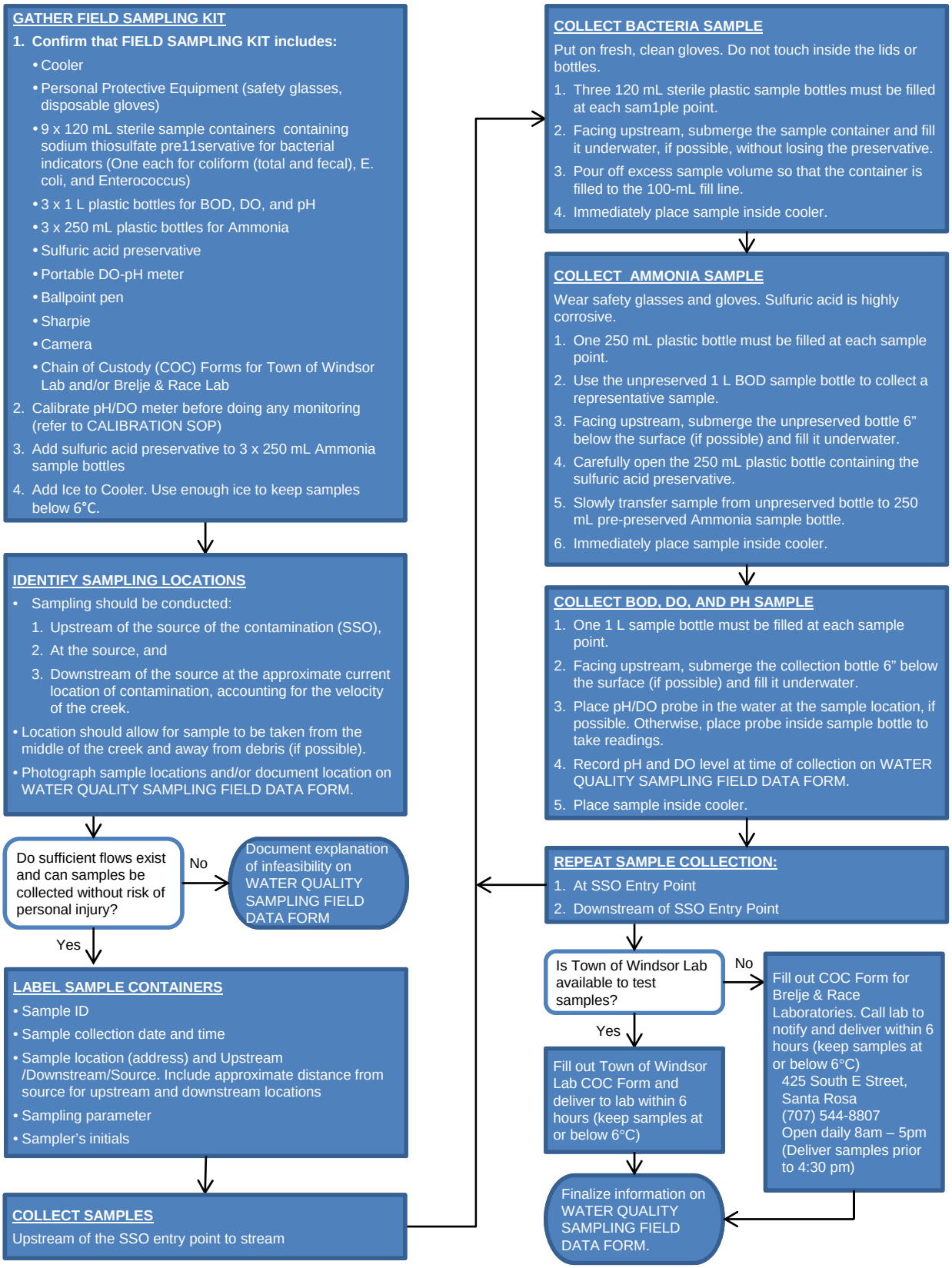
City Results Reported to:
□ County Health
□ Regional Water Quality Control Board
□ Other (as applicable):_____

Attach Google Earth, USGS Topo, or other appropriate map of sampling location(s) or sketch location(s) on back.

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Water Quality Sampling Procedures



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Emergency repairs within or near a creek or waterway can be done without violating environmental regulations, if compliance with the regulations is considered before, during, and after an emergency response. Emergency repairs may fall under the jurisdiction of several regulations and agencies. The following flow chart has been provided as an outline for the environmental permitting process during an emergency event in or near a waterway.

State and Federally Listed Species

To "take" a species listed as endangered by the Federal Endangered Species Act (FESA), or "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" towards such a species, is unlawful, regardless of whether the take results from an emergency response. However, proactive measures in advance of an emergency can help ensure emergency responses do not result in unauthorized take. Wherever possible, prior to starting work contact the Town's environmental personnel to determine whether the repair activities potentially impact species protected under the FESA or the California Endangered Species Act (CESA).

If the repair activities are federally funded or authorized, or a federal disaster area has been declared, Section 7 of the FESA allows a streamlined consultation process with U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS), which can simplify the process of avoiding and mitigating for take.

As with FESA, there is no exemption for take under CESA. If a state listed species is potentially impacted, coordinate with the County Department of Environmental Review and Assessment or another biologist and design measures to avoid take of the species. If the project cannot be modified to avoid potential take of a state listed species, coordinate with the Town's environmental personnel and the California Department of Fish and Game (CDFG) to explore other options.

Section 404 of the Clean Water Act

Under Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers (Corps) has jurisdiction of all navigable waters, including wetlands.

Section 404 Maintenance Exemption. Emergency repair activities within waterways may qualify for a Maintenance Exemption under Section 404 if all of the following conditions are met:

1. The repair involves reconstruction of recently damaged parts of active collection system sewers and structures, and does not involve any new, permanent facilities upgrades;
2. The repair activities are necessary because there is a clear, sudden, unexpected, and imminent threat to life or property demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property or essential public services, such as an SSO;
3. The repair activities do not result in any discharge of dredged or fill material which contains any toxic pollutant listed under Section 307 of the Clean Water Act;

4. The repair activities do not result in any impairment of the waterway reach or flow and circulation of the water;
5. The repair activities do not result in "take" of federally listed species;
6. If federal funding or approvals are involved, the repair activities do not have the potential to affect federally listed species or to adversely modify critical habitat for such species.

If the repair activities qualify for a Maintenance Exemption, no agency notifications are necessary, and work can be carried out immediately. Coordinate with the Town's environmental personnel to ensure that impacts are minimized by protecting resources and restoring temporarily disturbed areas.

Nationwide Permit Program. If repair activities involve small modifications to the original structures, and/or the repair has only minimal impacts to the aquatic environment, immediately contact the Corps to find out if the work falls under the authority of the Nationwide Permit (NWP) Program under an emergency situation.

If the work can be done under the NWP, then notify the Corps of the emergency, immediately begin repair work, and the Corps may issue an after the fact NWP once the emergency work is complete.

Section 404 Regional General Permit No. 60. If the repair activities do not meet all of the conditions for a Maintenance Exemption, the work may be eligible for Section 404 coverage under Regional General Permit (RGP) No. 60, which addresses emergency actions. Prior notification to the Corps is necessary in this situation, and work cannot begin until the Corps has authorized the work. The notification package should include the specific information outlined in the Section 404 RGP No. 60. The Corps will distribute the notification to other agencies for their review and comments. The authorization will likely include requirements for avoiding, minimizing, and mitigating wetland impacts. Work must begin within seven days of receiving authorization to proceed and must be completed within six months of authorization.

Section 401 of the Clean Water Act

Water Quality Certification. If the repair work qualifies for RGP No. 60, it is also subject to the provisions of the Water Quality Certification (WQC) issued by the State Water Resources Control Board (SWRCB) under Clean Water Act Section 401. Prior to starting work, the notification sent to the Corps for RGP No. 60 must also be forwarded to SWRCB with the appropriate review fee. If the District is not contacted by the SWRCB within 30 calendar days of the postmarked date of the notification, it is assumed that the project meets the conditions of the WQC order and repair work may proceed.

Post- project reports must be submitted to the Corps and SWRCB consistent with provisions in RGP No. 60 and the WQC.

Section 1610 of the California Fish and Game Code

Emergency Notification Form. If the emergency action also involves diversion or obstruction of natural flow (such as with the use of a spill containment dam or spill recovery), or modification of a stream channel, CDFG must be notified within14 days after starting the work, using the CDFG Emergency Notification Form.

California Environmental Quality Act

California Environmental Quality Act (CEQA) Compliance. Projects that require specific actions necessary to prevent or mitigate an emergency, can qualify for an exemption under CEQA. An emergency is defined as "a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential pubic services." "Emergency" includes such occurrences as "fire, flood, earthquake, or other soil or geologic movements, as well as such occurrences as riot, accident, or sabotage." CEQA defines an emergency narrowly, and the definition does not include situations caused by deferred maintenance.

If a project does not qualify as an emergency under CEQA, then contact the Town's environmental personnel to determine if the project qualifies for any of the several other statutory exemptions to CEQA. The level of effort required to reach CEQA compliance varies from determination of applicable exemption, to completion of an Environmental Impact Report.

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TOWN OF WINDSOR

INCIDENT / TRAFFIC ACCIDENT REPORT FORM
TOWN OF WINDSOR

INSTRUCTIONS:

1. All incidents and accidents involving injury to persons (other than Town employees in the line of duty) and/or damage to property, occurring on Town-owned or leased premises or as a result of Town activities, are to be reported to a supervisor and need to be documented on this form. Examples of incidents and accidents include sewer spills, water main breaks, storm damage, and vehicle collisions. Add pages to the form as necessary. Attach copies of police reports, photos and other pertinent documents.
2. **Non emergency** incident/accident occurs during REMIF's normal business hours (8-5, M-F), call **707-539-7017.** If necessary leave a message.
3. **Emergencies, after hours, weekends and holidays,** call Cal North's Claims Adjuster Ed Chasco at **707 548-2165.**
4. If no call back "within half an hour" call Chuck Veader at **707-328-1539.**
5. After an incident/accident, this report must be completed and delivered as soon as possible to: (a) REMIF, (b) the reporting employee's Department Director, and (c) the Administrative Services Director.

A. DESCRIPTION Please Indicate ☐ INCIDENT ☐ TRAFFIC ACCIDENT

1. Person(s) involved in incident/accident:

   1st party name: _____ Age: _____

   If minor, parent's name: _____

   Address: _____

   _____ Phone: _____

   If Town employee: Name _____ Dept _____ Supervisor _____

   2nd party name (if applicable): _____ Age: _____

   If minor, parent's name: _____

   Address: _____

   _____ Phone: _____

2. Date of incident/accident: _____ Time of incident/accident: _____ ☐ AM ☐ PM
3. Location of incident/accident: _____ Town vehicle # _____
4. Description of incident/accident: _____

   _____

   _____

   _____

   Description of injuries: _____

   _____

   _____

   _____

5. Description of property/vehicle damage. If applicable include vehicle owner's name, vehicle license, make and model: _____

   _____

   _____

6. If vehicle accident, other party's insurance company and policy # _____

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Enrollee's Guide to the SSO Database

Sanitary Sewer Overflow Reduction Program

State Water Resources Control Board

Last Updated August 2013

Acknowledgements

This Enrollee's Guide to the CIWQS SSO Database (SSO Database) was developed by way of a collaborative effort between stakeholders and State Water Board staff. The following agencies contributed to the development of this guide (in alphabetical order):

- Central Valley Clean Water Association
- Central Contra Costa Sanitary District
- City of Redding
- City of Vacaville
- Fairfield-Suisun Sewer District
- Orange County Sanitation District
- Sacramento Area Sewer District
- Sacramento Regional County Sanitation District
- Union Sanitary District

TABLE OF CONTENTS

1.0 GENERAL GUIDANCE 3

1.1 CIWQS USER REGISTRATION 6

2.0 SSO DATABASE SCREENS AND REPORTS 7

2.1 LOGGING IN AND CHANGING PERSONAL INFORMATION 7

2.1.1 CIWQS LOG IN 8

2.1.2 MAIN MENU 8

2.1.3 CHANGING PERSONAL INFORMATION 8

2.2 SSO DATABASE MENU 10

2.2.1 COLLECTION SYSTEM QUESTIONNAIRE 10

2.2.2 QUESTIONS 11

2.3 SSO REPORTS 18

2.3.1 SCREEN 1 FOR BASIC SPILL DATA 20

2.3.2 SCREEN 2 FOR CATEGORY 3 SSO 21

2.3.3 SCREEN 2 FOR CATEGORY 2 SSO 25

2.3.4 SCREEN 2 FOR CATEGORY 1 SSO 30

2.4 PRIVATE LATERAL SEWER DISCHARGE (PLSD) 36

2.4.1 PLSD REPORT 36

2.5 NO SPILL CERTIFICATION 39

3.0 FREQUENTLY ASKED QUESTIONS 40

4.0 LIST OF ACRONYMS 47

5.0 GLOSSARY OF TERMS 49

6.0 SPILL FORMS AND QUESTIONNAIRE EXAMPLES 53

6.1 QUESTIONNAIRE 54

6.2 SSO CATEGORY 1 58

6.3 SSO CATEGORY 2 62
6.4 SSO CATEGORY 3 65
6.1 NO SPILL CERTIFICATION 68
7.0 RESOURCES 70
7.1 PRE-INSPECTION QUESTIONNAIRE 70
7.2 INTERNAL SELF-AUDITS 88
7.3 OTHER RESOURCES 103
7.3.1 California Water Environment Association 103
7.3.2 California Rural Water Association 103
7.3.3 Rural Community Assistance Corporation 103
7.3.4 Central Valley Clean Water Association 103
7.3.5 Bay Area Clean Water Agencies 103
7.3.6 Southern California Alliance of Publicly Owned Treatment Works 103
7.3.7 Cal Fog 103

1.0 GENERAL GUIDANCE

This guide was developed to assist enrollees in completing the required SSO reporting forms contained in SSO Database. The guide contains general guidance, detailed information on how to enter the SSO Database module in the California Integrated Water Quality System (CIWQS), how to complete and submit the information which is required annually and after each spill occurrence, a list of acronyms, and a glossary. The format of the guide generally shows individual items from the SSO Database screens in bold brown print and then offers an explanation of how to complete that particular item. This guide was produced by stakeholders in the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, a number of people working in the wastewater industry, and the staff of the State Water Resources Control Board. This guidance document is a "living document" and, it will be updated as necessary.

To provide a consistent, statewide regulatory approach to address SSOs, the State Water Resources Control Board (State Water Board) adopted Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2006-0003 (SSS WDRs), on May 2, 2006. All public agencies that own or operate a sanitary sewer system that is comprised of more than one mile of pipes or sewer lines which convey wastewater to a publicly owned treatment facility must apply for coverage under the SSS WDRs. The application or Notice of Intent (NOI) for enrollment should have been submitted to the State Water Board by November 2, 2006.

The SSS WDRs requires enrollees, among other things, to maintain compliance with the Monitoring and Reporting Program for the SSS WDRs. Enrollees use the SSO Database to comply with the reporting requirements of the SSS WDRs. The SSO Database is used to collect and store an enrollee's facility and organizational information (collection system questionnaire) and details of all SSOs which occur from an enrollee's sanitary sewer system (SSO reports). All of the information collected in the SSO Database is entered by enrollees. State Water Board staff cannot modify any information in the database except for deleting erroneous SSO reports and "no-spill" certifications on request from an enrollee with a valid explanation of why the report or certification is erroneous.

The SSO Database is accessed through the California Integrated Water Quality System (CIWQS), which is the State Water Board's regulatory and water quality information management system. Enrollees will automatically be assigned a CIWQS account to access the SSO Database when they register as a Legally Responsible Official or Data Submitter.

Access to the SSO Database allows enrollees to complete the collection system questionnaire, certify completion of the Sewer System Management Plan, and submit SSO reports as required by the SSS WDRs. The SSS WDRs requires enrollees to complete the collection system questionnaire within 30 calendar days of enrolling and to update it annually. The Legally Responsible Official (LRO) for each enrollee will receive their CIWQS user ID and password via email to access the SSO Database. Once the LRO has received their CIWQS user ID and password, the enrollee can register additional staff as LROs or Data Submitters (DS) for individual access to the SSO Database. Instructions for completing this registration process are available on the CIWQS Help Center webpage. Electronic LRO and DS forms can be filled out at the following link on the SSO Database home page: (https://ciwqs.waterboards.ca.gov/ciwqs/newUser.jsp).

For additional questions, call the CIWQS Help Center at:

Phone: 866-79-CIWQS (24977)
Email: ciwqs@waterboards.ca.gov
Monday through Friday (excluding State Holidays) 8:00 a.m. - 5:00 p.m.

On adoption In 2006, the SSS WDRs required enrollees to begin reporting all SSOs to the SSO Database according to the following schedule: Regions 4,8, and 9 - starting January 2, 2007; Regions 1,2, and 3 -starting May 2, 2007; and Regions 5,6, and 7 - starting September 2, 2007.

Detailed information on each SSO is submitted by enrollees in the SSO report. Enrollees are required to report all SSOs that result from a failure or flow condition in any portion of a sanitary sewer system under their ownership or management. For the purposes of reporting, SSOs fall into one of three categories: Category 1, Category 2, and Category 3. The definitions for each Category are listed in Table 1, below.

CATEGORIES	**DEFINITIONS** [see Section A on page 5 of SSS WDRs for SSO definition]
CATEGORY 1	Discharges of untreated or partially treated wastewater of **any volume** resulting from an enrollee's sanitary sewer system failure or flow condition that: Reach surface water and/or reach a drainage channel tributary to a surface water; or Reach a municipal separate storm sewer system and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the municipal separate storm sewer system is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or ground water infiltration basin (e.g., infiltration pit, percolation pond).
CATEGORY 2	Discharges of untreated or partially treated wastewater of **1,000 gallons or greater** resulting from an enrollee's sanitary sewer system failure or flow condition that **do not** reach surface water, a drainage channel, or a municipal separate storm sewer system unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily reported to the SSO Database.

Table 1 – Spill Categories and Definitions

The reporting deadline for submittal of a SSO report depends on the classification of the spill as shown in Table 2. For Category 1and 2 SSOs, the enrollee must submit an initial, draft report of the SSO as soon as possible but no later than 3 business days after becoming aware of the SSO. The final, certified report for Category 1 and 2 SSOs must be submitted within 15

calendar days of the SSO end date. For Category 3 SSOs, the enrollee must submit a final, certified report (no initial, Draft report required) within 30 calendar days after the end of the calendar month in which the SSO occurred. For instance, if the SSO occurred on February 1st, the enrollee must certify the Category 3 SSO before March 30th.

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION (see section B)	Within 2 hours of becoming aware of any Category 1 SSO **greater than or equal to 1,000 gallons** notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.	Call Cal OES at: **(800) 852-7550**
REPORTING (see section C)	Category 1 SSO: Submit Draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. Category 2 SSO: Submit Draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. Category 3 SSO: Submit Certified report within 30 calendar days of the end of month in which SSO occurred. "No Spill" Monthly Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month in which no SSOs occurred. Collection System Questionnaire: Update and Certify every 12 months.	Enter data into the California Integrated Water Quality System (CIWQS) Online SSO Database (http://ciwqs.waterboards.ca.gov/) , certified by enrollee's Legally Responsible Official(s).

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

Notification to Cal OES is required within two hours of becoming aware of a Category 1 SSO greater than or equal to 1,000 gallons that results or may result in a discharge to surface waters. Specifically, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.

With the exception of enrollees in the San Diego region, Private Lateral Sewage Discharges (PLSDs) are not required to be reported, but they can be voluntarily reported to the database. The State Water Board encourages enrollees to Notify Cal OES for PLSDs greater than or equal to 1,000 gallons that result or may result in a discharge to surface waters.

No-spill Certifications are required within 30 days after the end of each calendar month if there are no SSOs during the calendar month. If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee must still file a "No Spill" certification statement for that

month.

1.1 CIWQS USER REGISTRATION

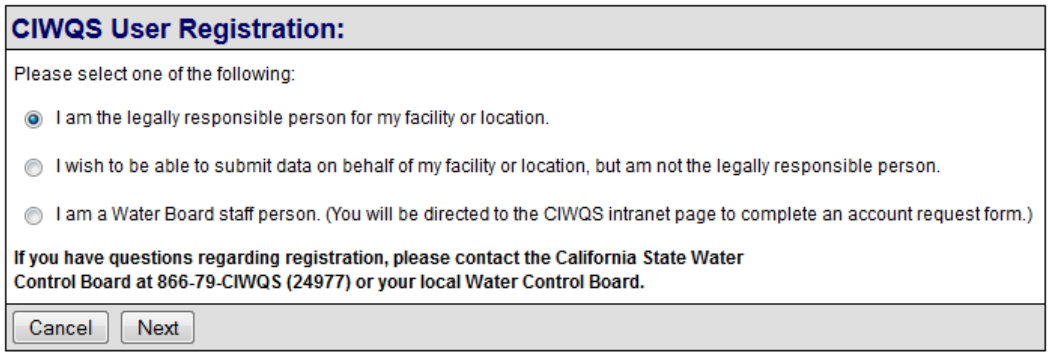
In order to be able to use the SSO Database (i.e., report SSOs, No Spill Certifications, etc.) you need to be registered in the database as a Legally Responsible Official (LRO) or a Data Submitter (DS). If you are not registered in the SSO Database and wish to be registered as a LRO or DS for your agency, follow the steps below:

1. Start by going to the CIWQS login screen at: http://ciwqs.waterboards.ca.gov/.

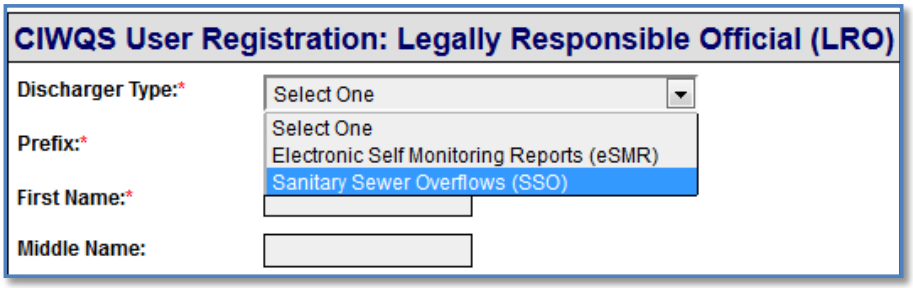


2. Click on "User Registration".

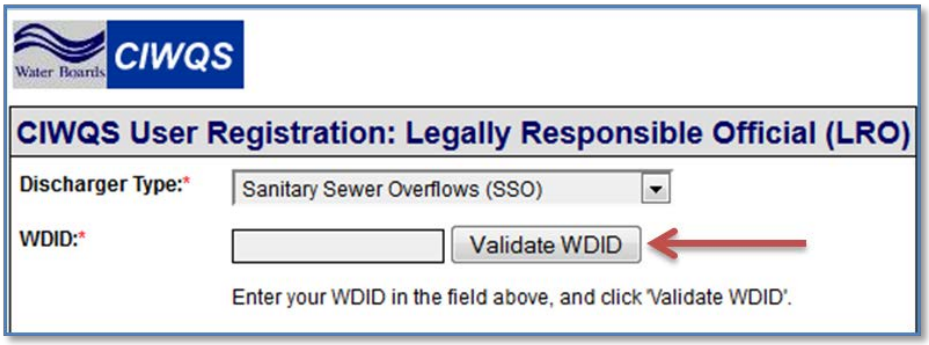
3. Select one of user responsibility.



4. A form corresponding to the user responsibility will appear. From the "Discharge Type" dropdown, select "Sanitary Sewer Overflows (SSO)."



5. Next, enter the WDID corresponding to your sanitary sewer system. After you enter the WDID number, the form will auto populate information corresponding to your agency.



6. Complete the form. Note: Your account PIN can be used to reset your account if you forget your security question answers and inadvertently lock your account.

7. If you are registering as Data Submitter, you can submit your form electronically.

8. If you are registering as a Legally Responsible Official, you need to print, sign, and send the form to the address below:

CIWQS Registration
P.O. Box 671
Sacramento, CA 95812

9. The CIWQS Help Center will send an email notification with your user name and password after the registration has been approved.

2.0 SSO DATABASE SCREENS AND REPORTS

The following sections describe how to use the SSO Database and provide a description of each screen and information required to be entered.

2.1 LOGGING IN AND CHANGING PERSONAL INFORMATION

To get you started we are going to show you how to log into the system, a view of the main menu, and how to make changes to your personal information. While these are very basic

tasks, it is one of the best beginner demonstrations to SSO Database and it will introduce you to the methods with which all information is changed in the system.

2.1.1 CIWQS LOG IN

User roles that need to review this section: All

1. Start by going to the CIWQS login screen at: http://ciwqs.waterboards.ca.gov/.

2. Once the page loads enter your CIWQS username into the "User ID:" field and your password into the "Password:" field.

3. Press "Login".



2.1.2 MAIN MENU

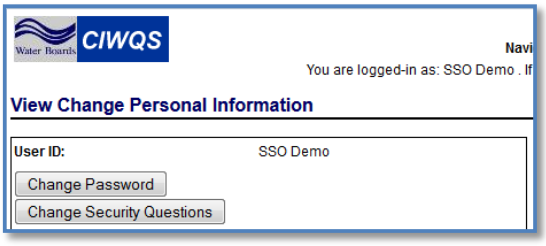
4. After you press "Login" the SSO Database main menu will appear. Depending on your access rights, you will be provided with the links to various CIWQS modules including but not limited to:
    - Submit/Review a Self-Monitoring Report (SMR)
    - Run Reports
    - View/Change My Personal Information
    - Administer System
    - SSO - Sanitary Sewer Overflows

2.1.3 CHANGING PERSONAL INFORMATION

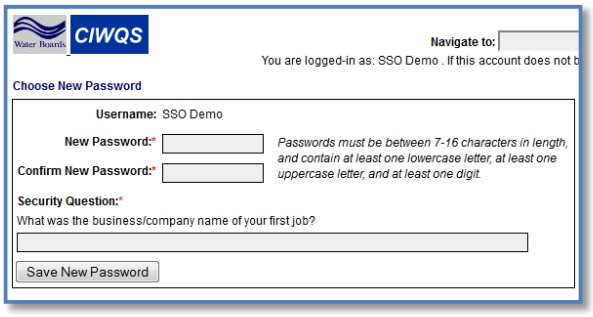
5. Select the "View/Change My Personal Information" module hyperlink.

6. You will be taken to the Personal Information page. Here you can update your contact information, add a new facility, change your password, or request other changes.

7. Let's start with changing your password. To change your password, press the "Change Password" button.



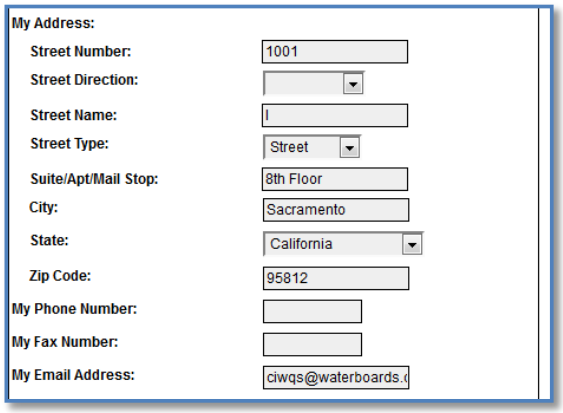
8. After pressing “Change Password” you will be taken to a new screen asking you to enter the new password you have selected twice.



9. Once you have entered your new password press “Save”.

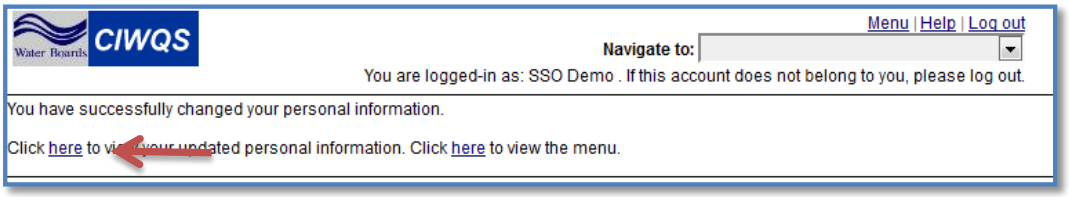
10. After pressing “Save” you will be asked to verify that you wish to save, press “Ok”.

11. You will be returned to the personal information screen. If you scroll down a little you can view all of your contact information.



12. If you make any changes to your contact information, they have to be saved by pressing the “Save Changes” button at the bottom of the page.

13. After pressing “Save Changes”, you will see a screen verifying that your changes were logged. You will also be provided with two hyperlinks. Press the first “here” hyperlink to return to the personal information screen.



14. To make other changes to your account that are not available on this page, press the "Request Another Change" button near the bottom of the "view/change my personal information" page.

15. After pressing the "Request Another Change" button, your computer's email client will launch a new email window with the CIWQS Help Center email address in the "To:" field. Describe the change you wish to have made to your account and send the email. Be sure to include your full name, agency and username.

16. We are now done with this module. Press the "Menu" hyperlink at the top right corner of the page to return to the SSO Database main menu.

2.2 SSO DATABASE MENU

As you log into the SSO Database to enter information regarding your sanitary sewer system, there will be a number of forms you will be required to complete one time, monthly, yearly or every time there is a sewer system overflow (SSO). These forms are as follows:

- Collection System Questionnaire
- Sewer System Management Plan (SSMP) Certification
- Reporting New SSO
- Modifying Existing SSO
- Generate No Spill Certification
- View SSO Incident Map - Public Collection Systems (Not Site Specific)
- View SSO Incident Map - Private Laterals (Not Site Specific)

This discharge's guide is designed to help sewer system operators in completing the above forms in order to meet their reporting obligations under the SSS WDRs.

2.2.1 COLLECTION SYSTEM QUESTIONNAIRE

The Collection System Questionnaire must be completed initially at the time of enrollment before any SSO reports can be submitted. Additionally, the collection system questionnaire must be updated at least annually. **Notice that if the questionnaire is not updated at least annually, the database will prevent you from reporting SSOs and No-Spill Certifications.**

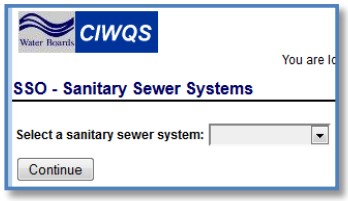
User roles that need to review this section: LRO

1. If you are not already logged into SSO Database, proceed to this URL http://ciwqs.waterboards.ca.gov/ and login.

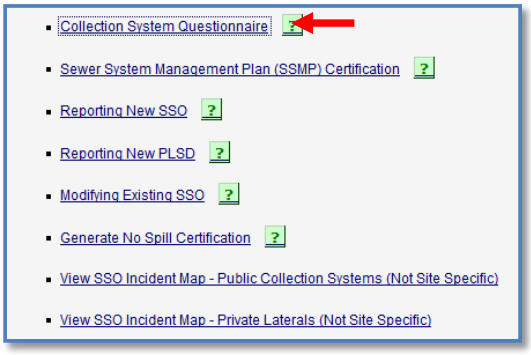
2. After logging in you will see the CIWQS main menu. Select the "SSO" hyperlink to proceed to the "SSO - Sanitary Sewer Overflows" module.



3. If you are registered as a DS or LRO for multiple enrolled sanitary sewer systems, upon entering the SSO Database you will be required to select the sanitary sewer system you wish to submit information for from the "Select a Sanitary Sewer System:" dropdown. After selecting the appropriate sanitary sewer system press the "Continue" button.



4. When a sanitary sewer system has been selected you will be taken to the main menu of the SSO Database. At the top of this menu will be the "Collection System Questionnaire" hyperlink. Select that hyperlink.



5. You will be taken to the "Collection System Questionnaire" page. This page has a series of fields that need to be filled in with current information regarding your sanitary sewer system.

2.2.2 QUESTIONS

There are thirty (30) questions to be answered to complete the SSO Questionnaire. These questions are shown below in bold brown type followed by an explanation on how to complete them. On the questionnaire, following each question is a box with a drop down or a place to

insert the answer.

1. **Sewer System Category:**
   Select the appropriate category from the scroll down menu that best fits your sanitary sewer system. Note, selections include: airport, hospital, marina (i.e., pleasure craft), military, municipal, other, park, port (i.e., commerce), prison, and school.

2. **What is the population served by your agency's sewer system?**
   Enter the number of people within the general population served by your agency, district, or city. Include any satellites systems that are under your jurisdiction. Use your billing information, recent US Census Data, Realtor Association, County Planning, or other official means of substantiating population estimates.

3. **What is your current annual operation and maintenance budget for sewer system facilities?**
   Enter the dollar amount of your agency, district or city's annual Operation & Maintenance Budget for the Sanitary Sewer System for the current fiscal year (include portion of laterals agency owned – none/lower/upper & lower, mains, trunk sewers, lift stations, and force mains, etc., but do not include the Wastewater Treatment Plant O&M or other non- sanitary sewer system related monies). This includes all personnel contributing to routine O&M activities. Estimate the percent of time that a group of employees works on sanitary sewer system activities if they have other shared responsibilities (e.g., storm water, roads, etc.). Use rounded dollar amount with commas up to 12 digits.

4. **What is your current annual capital expenditure budget for sewer system facilities?**
   Enter the dollar amount of your agency, district, or city's annual Capital Expenditure Budget for the Sanitary Sewer System for the current Fiscal year (include portion of laterals agency owned – none/lower/upper & lower, mains, trunk sewers, etc., but do not include the Wastewater Treatment Plant or other non- sanitary sewer system related capital improvement monies).

   Questions 5 through 8 – Employee Information
   For questions 5 through 8 below, technical and mechanical employees are all those employees involved in the operation and maintenance of your sanitary sewer system. This will include employee's time, or fraction thereof, working on the portion of laterals agency owned – none/lower/upper & lower, trunk sewers, interceptor sewers, collector sewers, pump stations, lift stations, and force mains.

   If you have employees that work on your sewer system but either split their time with other sewer systems or with non-sewer related work, you can enter a decimal point representing the fraction of a full time staff member for these four questions (e.g., 0.6 persons, 2.3 persons, etc.). Professional certification information for employees is requested in questions 9 through 13.

5. **Entry Level (Less than 2 years' experience) - Number of agency employees?**
   Provide the number of Entry Level technical and mechanical staff employees that have less than 2 years of sanitary sewer system work experience with your or any

other agency, district, or city.

6. **Journey Level (Greater than or equal 2 years' experience) - Number of agency employees?**
   Provide the number of Journey Level technical and mechanical staff employees that have greater than 2 years of sanitary sewer system work experience with your or any other agency, district, or city. Certification or licenses of any kind are not considered important in this question; only the number of years of working experience.

7. **Supervisory Level - Number of agency employees?**
   Provide number of agency, district, or city employees that supervise the technical and mechanical staff employees listed above. A supervisor is a person who supervises one or more crews of maintenance personal and is not a crew foreman. Supervisors split their time between field and office work.

8. **Managerial Level - Number of Agency Employees?**
   Provide number of agency, district, or city employees that manage the supervisors, technical and mechanical staff employees listed above. A manager oversees supervisors along with providing managerial duties such as budgeting, purchasing and cost control.

   Questions 9 through 13 – Employee Certification Information
   For questions 9 through 13 below, use whole numbers when showing how many employees have with the various types and grades of certifications. If management and engineering staff have the certifications listed below, include them in the totals. Do not include contract employees.

9. **CWEA Grade I**

   Number of certified (Grade I Collection System Maintenance) agency employees:
   Enter the number of employees that possess valid, current CWEA Grade I Collection System Maintenance certification.

   Number of certified (Grade I Plant Maintenance Technologist) agency employees
   Enter the number of employees that possess valid, current CWEA Grade I Plant Maintenance Technologist certification.

10. **CWEA Grade II**

    Number of certified (Grade II Collection System Maintenance) agency employees:
    Enter the number of employees that possess valid, current CWEA Grade II Collection System Maintenance certification.

    Number of certified (Grade II Electrical/Instrumentation Technologist) agency employees:
    Enter the number of employees that possess valid, current CWEA Grade II Electrical/Instrumentation Technologist certification.

Number of certified (Grade II Mechanical Technologist) agency employees:
Enter the number of employees that possess valid, current CWEA Grade II Mechanical Technologist certification.

11. **CWEA Grade III**

Number of certified (Grade III Collection System Maintenance) agency employees:
Enter the number of employees that possess valid, current CWEA Grade III Collection System Maintenance certification.

Number of certified (Grade III Electrical/Instrumentation Technologist) agency employees:
Enter the number of employees that possess valid, current CWEA Grade III Electrical/Instrumentation Technologist certification.

Number of certified (Grade III Mechanical Technologist) agency employees:
Enter the number of employees that possess valid, current CWEA Grade III Mechanical Technologist certification.

12. **CWEA Grade IV**

Number of certified (Grade IV Collection System Maintenance) agency employees:
Enter the number of employees that possess valid, current CWEA Grade IV Collection System Maintenance certification.

Number of certified (Grade IV Electrical/Instrumentation Technologist) agency employees:
Enter the number of employees that possess valid, current CWEA Grade IV Electrical/Instrumentation Technologist certification.

Number of certified (Grade IV Mechanical Technologist) agency employees:
Enter the number of employees that possess valid, current CWEA Grade IV Mechanical Technologist certification.

13. **OFFICE OF WATER PROGRAMS at CALIFORNIA STATE UNIVERSITY CERTIFICATES OF COMPLETION:**

Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume I) agency employees:
Enter the number of employees that possess a certification of completion for the Operation and Maintenance of Wastewater Collection Systems, Volume I.

Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume II) agency employees:
Enter the number of employees that possess a certification of completion for the Operation and Maintenance of Wastewater Collection Systems, Volume II.

14. **Estimated Size Distribution of Assets:**

Diameter of sewer pipe	Gravity Mainlines (%)	Force Mains (%)
6 inches or less		
8 inches		
9 - 18 inches		
19 - 36 inches		
> 36		
Unknown Diameter		
Totals		

Enter the estimated total percentage (%) of gravity mainlines and force mains for each size category (pipe diameter) comprising the enrolled sanitary sewer system.

15. **How many miles of force mains and other pressure systems?**
Enter the estimated total miles of force mains in the enrolled sanitary sewer system.

16. **How many miles of gravity sewers?**
Enter the estimated total miles of gravity mainlines in the enrolled sanitary sewer system. Do not include public or private laterals.

17. **Estimated total miles of laterals (upper and lower)?**
Enter the total miles of laterals, including private laterals and both upper and lower laterals, that are connected to the enrolled sanitary sewer system. See definitions of Lateral, Lower Lateral and Upper Lateral in the Glossary.

18. **Which portion of laterals is your agency responsible?**
For laterals connected to the sanitary sewer system which you have jurisdiction over, enter the portion of these laterals for which your agency is responsible. Responsibility includes inspection, cleaning, maintenance and replacement or any combination thereof.

19. **Estimated total miles of laterals your agency is responsible for?**
Enter the estimated total miles of the laterals reported in Question 17 that your agency owns and/or is responsible for maintaining. If you have service laterals on G.I.S., use that software to determine the total miles of service laterals you maintain. If not, estimate the mileage by multiplying the number of laterals by the average half width of a street and/or easement and then convert feet to miles.

20. **Number of service lateral connections?**
Enter the total number of service lateral connections to your sanitary sewer system. Assuming very few parcels connected to your sanitary sewer system have more than one lateral, the total number of service lateral connections can roughly be calculated by adding up the number of parcels of land (or billing accounts) connected to your sanitary sewer system.

21. **Approximately, what percentage of your sewer system piping and number of pump stations were constructed between the years of:**

Age	Gravity Mainlines & Force Mains (%)	Pump Stations (*) 75k Gal/day & Over (number of stations)	Pump Stations (*) Under 75k Gal/day (number of stations)
2000 - Present	0	0	0
1980 - 1999	0	0	0
1960 - 1979	0	0	0
1940 - 1959	0	0	0
1920 - 1939	0	0	0
1900 - 1919	0	0	0
Before 1900	0	0	0
Unknown Age	0	0	0
Totals	0	0	0

For pump stations, flow categories are the maximum flow rate occurring over a 24-hr period based on annual operating data (e.g., based on measured flow) or calculated peak flow (e.g., # EDUs x Flow/EDU x Peaking Factor). Age is date asset was originally constructed.

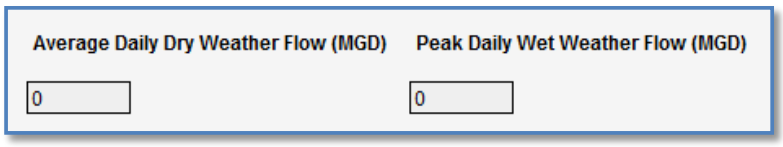
In the second column, enter the percent of your sanitary sewer system that was constructed during the ten year periods noted in the first column. Calculate the percentages based on as-built drawings and other available information. When entering the number of pump or lift stations you maintain, enter the year they were originally constructed or the year that they were significantly improved or re-built. To determine the capacity of the pump station use the design peak wet weather flow rate with no standby pumps running.

22. **Estimated total miles of your sewer system not accessible for maintenance?**
Enter the estimated total miles of the sanitary sewer system your agency has jurisdiction over that are not accessible for maintenance by vehicle or other means for routine maintenance.

23. **How many miles of sewer system did you clean last year (miles)?**
Enter the number of linear miles of the sanitary sewer system your agency cleaned or re-cleaned in the last complete fiscal year.

24. **How many miles of sewer system did you inspect (e.g., CCTV) last year (miles)?**
Enter the number of linear miles of the sanitary sewer system your agency visually inspected or re-inspected in the last complete fiscal year.

25. **Estimated Sewer System Flow Characteristics**

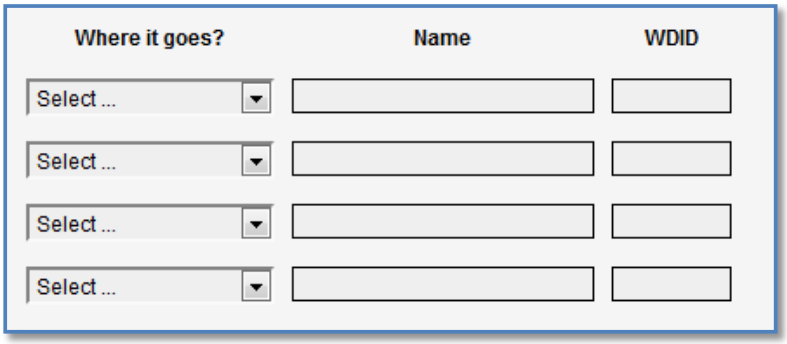


Average Dry Weather Flow (ADWF) – ADWF consists of average daily sewage flows and groundwater infiltration (GWI) and can be determined from the average measured daily flow of the three consecutive driest months of the year or the time period as defined by the agency's ordinance, standards, or other planning documents.

Peak Daily Wet Weather Flow (PDWWF) – PDWWF consists of ADWF plus rainfall-dependent inflow and infiltration (RDI/I). Peak daily wet weather flow is the highest measured daily flow that occurs during the wet weather season period as defined by the agency's ordinance, standards, or other planning documents.

Wastewater flows can be measured (as noted above), estimated, or modeled. An example of an estimated flow would be the number of Equivalent Dwelling Units (EDUs) times an assumed or measured average flow per EDU times a wet weather peaking factor. This method is often used in the initial design of the sanitary sewer system.

26. **Where does this Sanitary Sewer System Discharge to?**

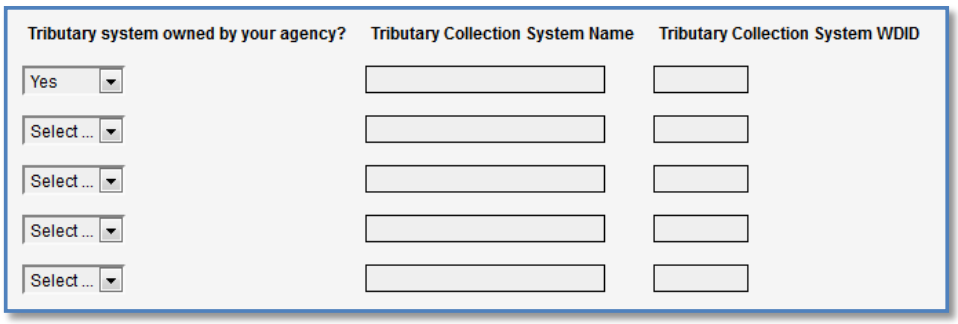


Select whether your collection sewer system discharges to a sanitary sewer system or a wastewater treatment plant. Next enter the name and WDID (if Known) of the sanitary sewer system(s) or wastewater treatment plant(s) to which your Sanitary sewer system discharges.

27. **Sanitary Sewer System tributaries:**

a. Are there any tributary sanitary sewer systems:
Select whether another enrolled sanitary sewer system discharges to your sanitary sewer system. If the answer is "Yes", question 26b must be answered.

b. If yes, please list below:



Select whether the tributary sanitary sewer system is owned by your agency or another agency. Next enter the name and WDID (if Known) of the sanitary sewer system(s).

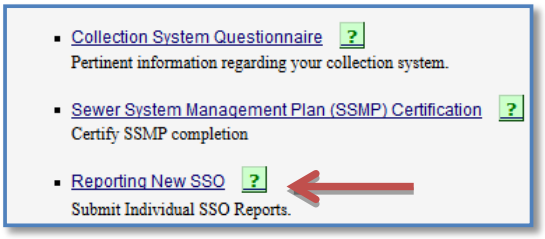
28. **How many gravity sewer aerial or underground crossings of water bodies (i.e., gravity sewer lines crossing over or under water bodies) are located throughout the sewer system?**
    Enter the number of locations where a gravity sewer crosses over or under a water body (e.g., gravity sewers attached to the side of a bridge or other support). A pipeline parallel to a stream or creek should not be included unless the pipeline is conveying flow from one side of the water body to the other. A water body is any significant accumulation of water such as streams, rivers, ponds, lakes, reservoirs, wetlands, oceans or seas.

29. **How many force main aerial or underground crossings of water bodies (e.g., pressurized sewer lines crossing over or under water bodies) are located throughout the sewer system?**
    Enter the number of locations where a force main crosses over or under a water body (e.g., force mains attached to the side of a bridge or other support). A pipeline parallel to a stream or creek should not be included unless the pipeline is conveying flow from one side of the water body to the other. A water body is any significant accumulation of water such as streams, rivers, ponds, lakes, reservoirs, wetlands, oceans or seas.

30. **How many siphons used to convey sewage are located throughout the sewer system?**
    Enter the number of wastewater siphons located throughout the sanitary sewer system.

2.3 SSO REPORTS

When you log on to SSO Database to report a sanitary sewer overflow (SSO) on the main menu you will click on the “SSO-Sanitary Sewer Overflows” link, then select your sanitary sewer system (if your agency owns more than one), next you are going to click on the “Reporting New SSO” link.



This will bring you to Screen 1, which is where you fill in basic data about the SSO. On this screen you will enter some basic spill data and the SSO Database will then direct you to the appropriate spill data entry form (i.e., Category 1, Category 2, or Category 3). Figure 1 below is a flow chart illustrating how the categorization is determined. The volumes used by the SSO Database will be shown at the bottom of the page. **NOTE, all SSOs are required to be reported to the SSO database regardless of the SSO volume.**

You should note that the SSS WDRs defines an SSO as an overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system and it defines a sanitary sewer system as being upstream of a wastewater treatment plant head works. Therefore, discharges in a wastewater treatment plant, a reclaimed water system or even from the back of a tanker truck are not SSOs and should not be reported in the SSO Database. However, these types of sewage spills should be reported to your Regional Board per the requirements in the wastewater treatment plant NPDES permit (refer to the Monitoring and Reporting Program in your permit) and/or local Health Department.

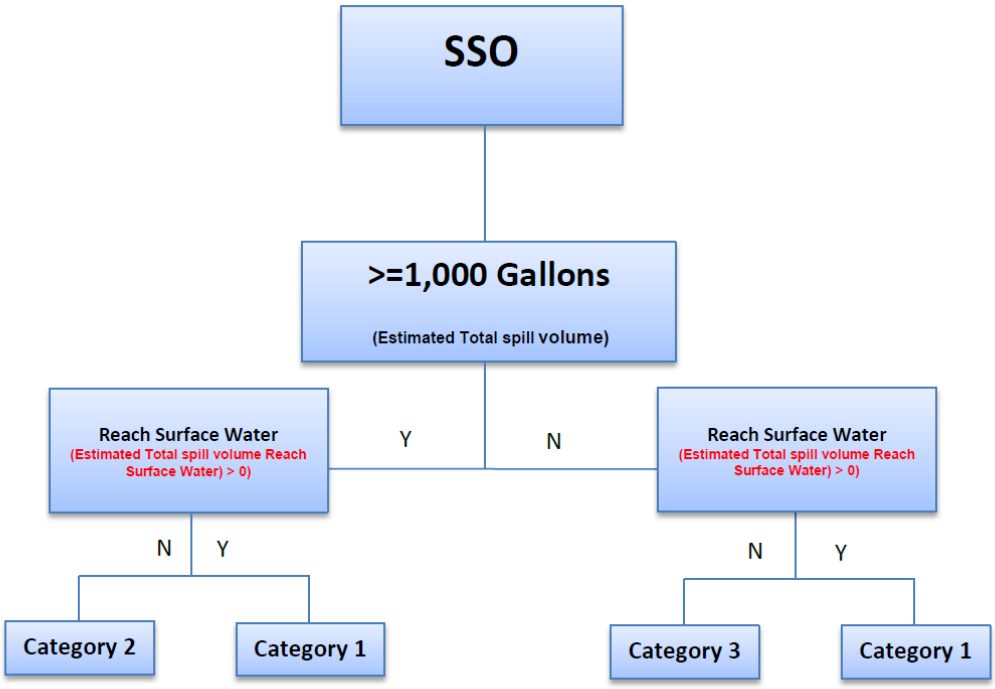


Figure 1 – SSO Categorization

2.3.1 SCREEN 1 FOR BASIC SPILL DATA

1. Physical location details

If one SSO event results in multiple appearance points in a sanitary sewer system asset, enter the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO and provide descriptions of the locations of all other discharge points associated with the SSO event.

a. Spill location name

Enter the name of the location where the SSO occurred in the "Spill Location Name" field. This entry may be a general descriptor of the SSO location (e.g., street address, intersection, or manhole number or any other identification you wish to use).

b. Latitude of spill location

Enter the latitude of the spill location. A handheld GPS unit or the "GIS Tool" link on the SSO Database spill report page in the SSO Database can be used to determine this information. This field must be completed to "submit draft" for any SSO report but not to "save work in progress".

c. Longitude of spill location

Enter the longitude of the spill location. A handheld GPS unit or the "GIS Tool" link on the SSO Database spill report page can be used to determine this information. This field must be completed to "submit draft" for any SSO report but not to "save work in progress".

d. County

Enter the County where the SSO occurred. This field will be auto filled based on the location information provided above.

e. Regional Water Quality Control Board

Enter the Regional Water Quality Control Board where the SSO occurred. This field will be auto filled based on the location information provided above.

2. Estimate Spill Volumes

a. Estimated spill volume that reached a separate storm drain that flows to a surface water body?

Enter the volume, in whole numbers, that entered the separate storm drain.

b. Estimated spill volume recovered from the separate storm drain that flows to a surface water body?

Enter the volume, in whole numbers, that was recovered from the separate storm drain. **Do not include wash water recovered**.

c. Estimated spill volume that reached a drainage channel that flows to a surface water body?

Enter the volume, in whole numbers, that was discharged to a drainage channel.

Do not include any volume that entered a separate storm drain.

d. Estimated spill volume recovered from a drainage channel that flows to a surface water body?
Enter the volume, in whole numbers, that was recovered from the drainage channel. Do not include volume recovered from the separate storm drain or wash water recovered.

e. Estimated spill volume discharged directly to a surface water body?
Enter the volume, in whole numbers, that was discharged directly to a surface water body.

f. Estimated spill volume recovered from the surface water body?
Enter the volume, in whole numbers, that was recovered from the surface water body. Refer to question 36 in section 3.0 for important notification requirements required before diverting from surface water bodies.

g. Estimated spill volume discharged to land?
Enter the volume, in whole numbers, that discharged to the land (e.g., soil, grass, curb, street, etc.)

h. Estimated spill volume recovered from the discharge to land?
Enter the volume, in whole numbers, recovered from the discharge to land. This includes discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location.

After entering all the required information, select "Continue" to go to the next screen. If there are any errors or missing information, the system will highlight the questions with errors on the form in red.

2.3.2 SCREEN 2 FOR CATEGORY 3 SSO

The SSO Database will direct you to the following screen based on the information you entered on Screen 1 if the spill is a Category 3 spill (i.e., the SSO was less than 1,000 gallons and did not reach surface waters). On this screen, you will enter additional data on the SSO that was not entered onto Screen 1.

Note that all of the data entered on Screen 1 was carried forward onto Screen 2. Questions 1-11 are automatically populated based on the data entered in the Estimated Spill Volumes fields on Screen 1. Questions 1-11 on Screen 2 should be reviewed for accuracy and can be over written with correct data as necessary. This step may be necessary to correct the "County" or "Regional Water Quality Control Board" fields if the spill occurs close to a boundary and/or your sanitary sewer system spans multiple counties or Regional Water Quality Control Boards.

There are 30 questions total with 22 (including the questions answered in Screen 1) that have to be answered to complete Screen 2 for a Category 3 SSO. These thirty questions are shown below with the questions carried over from Screen 1. Note that on this screen you can modify the information entered on Screen 1. Questions with one asterisk (*) are required to submit a "draft" report and questions with two asterisks (**) are required to certify the report.

1. **Spill Type:**
   The spill type is automatically determined based on the information you entered on Screen 1. In this case, the SSO is a Category 3 SSO (i.e., a spill less than 1,000 gallons and not reaching surface waters).

2. **Estimated spill volumes:***

   a) **Estimated spill volume that reached a separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   b) **Estimated spill volume recovered from the separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   c) **Estimated spill volume that reached a drainage channel that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   d) **Estimated spill volume recovered from a drainage channel that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   e) **Estimated spill volume discharged directly to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   f) **Estimated spill volume recovered from a drainage channel or surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   g) **Estimated spill volume discharged to land?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   h) **Estimated spill volume recovered from the discharge to land?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

3. **Did the spill discharge to a drainage channel and/or surface water?***
   This question is auto populated based on the answers to the Estimated Spill Volumes on screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than the answer to question 2.b, the answer to question 2.c is greater than zero, and/or the answer to question 2.e is greater than zero. A "No" will be displayed

if the answer to question 2.a equals the answer to question 2.b, the answer to question 2.c equals zero, and/or the answer to question 2.e equals zero.

4. **Did the spill reach a storm drainpipe that is not part of a combined sewer system?***
   This question is auto populated based on the answers to the Estimated Spill Volumes on screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than zero. A "No" will be displayed if the answer to question 2.a equals zero.

5. **If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?***
   This answer is auto populated based on the answers to the Estimated Spill Volumes. A "Yes" will be displayed if the answer to question 2.b equals the answer to question 2.a. A "No" will be displayed if the answer to question 2.b is less than the answer to question 2.a.

6. **Spill location name:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

7. **Latitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

8. **Longitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

9. **County:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

10. **Regional Water Quality Control Board:***
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

11. **Spill location description:**
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

12. **Number of Appearance Points:***
    Enter the number of appearance points. If one SSO event results in multiple appearance points in a sewer system asset enter the number of appearance points if greater than one (1).

13. **Spill appearance point:***
    Select the spill appearance point from the "Spill Appearance Point:" dropdown. If you selected "other" you are required to enter a description in text box No. 14 below. The "Spill Appearance Point:" is where wastewater first surfaced on the spill site. Multiple

spill appearance points can be selected by holding the CTRL key on your keyboard.

14. **Spill appearance point explanation:**
    If "Other" and/or multiple appearance points are selected, enter a description of the "Other" SSO appearance point not listed in the dropdown menu and/or, for multiple appearance points, enter a description including location details of each appearance point in this text field.

15. **Final spill destination:****
    Select the final destinations of the spill in the "Final Spill Destination" box. Multiple spill destinations can be selected by holding the CTRL key on your keyboard. If you selected "other" you are required to enter a description in the text box No 16 below. The "Final Spill Destination:" describes all areas that the wastewater flowed through and ultimately reached, which means multiple entries can be selected if necessary.

16. **Explanation of final spill destination:**
    If the "final spill destination" is not listed in the dropdown menu and "Other" was selected, then enter a description of the final spill destination.

17. **Estimated spill start date/time:***
    Enter the estimated spill start date/time in a 24-hour clock format.

18. **Date and time sanitary sewer system agency was notified of or discovered the spill:***
    Enter when your agency was notified or discovered the spill date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

19. **Estimated Operator arrival date/time:***
    Enter the estimated Operator arrival date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

20. **Estimated spill end date/time:****
    Enter the estimated spill end date/time in a 24-hour clock format. The date/time has to be later than the estimated spill start date/time.

21. **Spill cause:****
    Select a cause for the spill from the dropdown menu. Multiple spill causes can be selected by holding the CTRL key on your keyboard. If the cause selected was "Other", you are required to enter an explanation in text box No. 22 below.

22. **Spill cause explanation:**
    If the "spill cause" is not listed in the dropdown menu and "Other" was selected in question 21, then enter a description of the spill cause.

23. **Where did failure occur?****
    Select where the failure occurred from the dropdown menu. Multiple failure locations can be selected by holding the CTRL key on your keyboard. If the cause selected is "Other", you are required to enter an explanation in text box No. 24 below.

24. **Explanation of where failure occurred:**
    If the "where failure occurred" is not listed in the dropdown menu and "Other" was selected in question 23, then enter a description of where failure occurred.

25. **Was this spill associated with a storm event?****
    Select from the drop down whether a sewer flow condition resulting from storm induced inflow and/or infiltration where contributing factors for this SSO event.

26. **Diameter of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the size in inches of the diameter of the sewer pipe where the point of blockage for the pipe or failure occurred.

27. **Material of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the material of sewer pipe where the point of blockage for the pipe or failure occurred. Abbreviations such as PVC and VCP are acceptable.

28. **Estimated age of sewer asset at the point of blockage or failure (if applicable):**
    If applicable, enter the estimated age of the sewer asset, in whole numbers, where the point of blockage for the asset or failure occurred.

29. **Explanation of volume estimation methods used:**
    Give an explanation of the method(s) used to estimate the volume of the spill. The agency may refer to its spill response procedures or attach a sketch, if needed. The explanation may reference estimation methods contained within your agency's SSO response procedures.

30. **SSO Contact information:***
    a. Name and Title (Contact person who can answer specific questions about this SSO)
    b. Contact Person Phone Number

2.3.3 SCREEN 2 FOR CATEGORY 2 SSO

The SSO Database will direct you to the following screen based on the information you entered on Screen 1 if the spill is a Category 2 spill (i.e., SSO was greater than 1,000 gallons and did not reach surface waters). On this screen, you will enter additional data on the SSO that was not entered onto Screen 1.

Note that all of the data entered on Screen 1 was carried forward onto Screen 2. Questions 1-11 are automatically populated based on the data entered in the Estimated Spill Volumes fields on Screen 1. Questions 1-11 on Screen 2 should be reviewed for accuracy and can be over written with correct data as necessary. This step may be necessary to correct the "County" or "Regional Water Quality Control Board" fields if the spill occurs close to a boundary and/or your sanitary sewer system spans multiple counties or Regional Water Quality Control Boards.

There are 36 questions total with 28 (including the questions answered in Screen 1) that have to be answered to complete Screen 2 for a Category 2 SSO. These thirty questions are shown below with the questions carried over from Screen 1. Note that on this screen you can modify the information entered on Screen 1. Questions with one asterisk (*) are required to submit a "draft" report and questions with two asterisks (**) are required to certify the report.

1. **Spill Type:**

   This is automatically determined based on the information you entered on Screen 1. In this case, the SSO is a Category 2 SSO (i.e., spill is greater than 1,000 gallons and not reaching surface waters).

2. **Estimated spill volumes:***

   a) **Estimated spill volume that reached a separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   b) **Estimated spill volume recovered from the separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   c) **Estimated spill volume that reached a drainage channel that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   d) **Estimated spill volume recovered from a drainage channel that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   e) **Estimated spill volume discharged directly to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   f) **Estimated spill volume recovered from a drainage channel or surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   g) **Estimated spill volume discharged to land?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   h) **Estimated spill volume recovered from the discharge to land?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

3. **Did the spill discharge to a drainage channel and/or surface water?***
   This question is auto populated based on the answers to the Estimated Spill Volumes on Screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than the answer to question 2.b, the answer to question 2.c is greater than zero, and/or the answer to question 2.e is greater than zero. A "No" will be displayed

if the answer to question 2.a equals the answer to question 2.b, the answer to question 2.c equals zero, and/or the answer to question 2.e equals zero.

4. **Did the spill reach a storm drainpipe that is not part of a combined sewer system?***
   This question is auto populated based on the answers to the Estimated Spill Volumes on Screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than zero. A "No" will be displayed if the answer to question 2.a equals zero.

5. **If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system? ***
   This answer is auto populated based on the answers to the Estimated Spill Volumes. A "Yes" will be displayed if the answer to question 2.b equals the answer to question 2.a. A "No" will be displayed if the answer to question 2.b is less than the answer to question 2.a.

6. **Spill location name:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

7. **Latitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

8. **Longitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

9. **County:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

10. **Regional Water Quality Control Board:***
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

11. **Spill location description:**
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

12. **Number of Appearance Points:***
    Enter the number of appearance points. If one SSO event results in multiple appearance points in a sewer system asset enter the number of appearance points if greater than one (1).

13. **Spill appearance point:***
    Select the spill appearance point from the "Spill Appearance Point:" dropdown. If you selected "other" you are required to enter a description in text box No. 14 below. The "Spill Appearance Point:" is where wastewater first surfaced on the spill site. Multiple

spill appearance points can be selected by holding the CTRL key on your keyboard.

14. **Spill appearance point explanation:***
    If "Other" and/or multiple appearance points are selected, enter a description of the "Other" SSO appearance point not listed in the dropdown menu and/or, for multiple appearance points, enter a description including location details of each appearance point in this text field.

15. **Final spill destination:****
    Select the final destinations of the spill in the "Final Spill Destination" box. Multiple spill destinations can be chosen by holding the CTRL key on your keyboard. If you selected "other" you are required to enter a description in the text box No 16 below. The "Final Spill Destination:" describes all areas that the wastewater flowed through and ultimately reached, which means multiple entries can be selected if necessary.

16. **Explanation of final spill destination:**
    If the "final spill destination" is not listed in the dropdown menu and "Other" was selected, then enter a description of the final spill destination

17. **Estimated spill start date/time:***
    Enter the estimated spill start date/time in a 24-hour clock format.

18. **Date and time sanitary sewer system agency was notified of or discovered the spill:***
    Enter when your agency was notified or discovered the spill date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

19. **Estimated Operator arrival date/time:***
    Enter the estimated Operator arrival date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

20. **Estimated spill end date/time:****
    Enter the estimated spill end date/time in a 24-hour clock format. The date/time has to be later than the estimated spill start date/time.

21. **Spill cause:****
    Select a cause for the spill from the dropdown menu. Multiple spill causes can be selected by holding the CTRL key on your keyboard. If the cause selected was "Other", you are required to enter an explanation in text box No. 22 below.

22. **Spill cause explanation:**
    If the "spill cause" is not listed in the dropdown menu and "Other" was selected in question 21, then enter a description of the spill cause.

23. **Where did failure occur?****
    Select where the failure occurred from the dropdown menu. Multiple failure locations can be selected by holding the CTRL key on your keyboard. If the cause selected is "Other", you are required to enter an explanation in text box No. 24 below.

24. Explanation of where failure occurred:
If the "where failure occurred" is not listed in the dropdown menu and "Other" was selected in question 23, then enter a description of where failure occurred.

25. Was this spill associated with a storm event?**
Select from the drop down whether a sewer flow condition resulting from storm induced inflow and/or infiltration where contributing factors for this SSO event.

26. Diameter of sewer pipe at the point of blockage or failure (if applicable):
If applicable, enter the size in inches of the diameter of the sewer pipe where the point of blockage for the pipe or failure occurred.

27. Material of sewer pipe at the point of blockage or failure (if applicable):
If applicable, enter the material of sewer pipe where the point of blockage for the pipe or failure occurred. Abbreviations such as PVC and VCP are acceptable.

28. Estimated age of sewer asset at the point of blockage or failure (if applicable):
If applicable, enter the estimated age of the sewer asset, in whole numbers, where the point of blockage for the asset or failure occurred.

29. Spill response activities:**
Select the response activities from the dropdown menu that your agency completed in responding to the spill. Multiple response activities can be selected by holding the CTRL key on your keyboard. If your selection was "Other", you are required to enter an description of the response activities in text box No. 30 below.

30. Explanation of spill response activities:
If the "spill response activities" completed are not listed in the dropdown menu and "Other" was selected in question 29, enter a description of the spill response activities completed.

31. Spill response completion date:**
Enter the spill response completion date/time in a 24-hour clock format (i.e., when agency staff completed their cleanup work). The date/time has to be later than the estimated spill start date/time.

32. Spill corrective action taken:**
Select the corrective actions which were taken by your agency in response to the spill. Multiple corrective actions can be selected by holding the CTRL key on your keyboard. If your selection was "Other", you are required to enter a description of the corrective actions taken in text box No. 33 below.

33. Explanation of spill corrective action taken:
If the "spill corrective action taken" tasks completed are not listed in the dropdown menu and "Other" was selected, then enter a description of the spill corrective actions taken.

34. Is there an ongoing investigation:**
Select "yes" from the dropdown menu if there is an ongoing investigation of the SSO. Select "no" from the dropdown menu if the investigation of the SSO has been

completed.

35. **Explanation of volume estimation methods used:**
    Provide a description of the method(s) used to estimate the volume of the spill. Attach your calculations and a sketch if needed. The explanation may reference estimation methods contained within your agency's SSO response procedures.

36. **SSO Contact information:***
    a. Name and Title (Contact person who can answer specific questions about this SSO)
    b. Contact Person Phone Number

2.3.4 SCREEN 2 FOR CATEGORY 1 SSO

The SSO Database will direct you to the following screen based on the information you entered on Screen 1 if the spill is a Category 1 spill (i.e., the SSO reached surface waters). On this screen, you will enter additional data on the SSO that was not entered on Screen 1.

Note that all of the data entered on Screen 1 was carried forward onto Screen 2. Questions 1-11 are automatically populated based on the data entered in the Estimated Spill Volumes fields on Screen 1. Questions 1-11 on Screen 2 should be reviewed for accuracy and can be over written with correct data as necessary. This step may be necessary to correct the "County" or "Regional Water Quality Control Board" fields if the spill occurs close to a boundary and/or your sanitary sewer system spans multiple counties or Regional Water Quality Control Boards.

There are 47 questions total with 37 (including the questions answered in Screen 1) that have to be answered to complete Screen 2. These forty seven questions are shown below with the questions carried over from Screen 1. Note that on this screen you can modify the information entered on Screen 1. Questions with one asterisk (*) are required to submit a "draft" report and questions with two asterisks (**) are required to certify the report.

1. **Spill Type:**
   This is automatically determined based on the information you entered on Screen 1. In this case, the SSO is a Category 1 SSO (i.e., the spill reached surface waters).

2. **Estimated spill volumes:***

   a) **Estimated spill volume that reached a separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   b) **Estimated spill volume recovered from the separate storm drain that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

   c) **Estimated spill volume that reached a drainage channel that flows to a surface water body?**
   The answer to this question is carried over from Screen 1. See section 2.3.1

for guidance.

d) **Estimated spill volume recovered from a drainage channel that flows to a surface water body?**
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

e) **Estimated spill volume discharged directly to a surface water body?**
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

f) **Estimated spill volume recovered from a drainage channel or surface water body?**
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

g) **Estimated spill volume discharged to land?**
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

h) **Estimated spill volume recovered from the discharge to land?**
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

3. **Did the spill discharge to a drainage channel and/or surface water?***
This question is auto populated based on the answers to the Estimated Spill Volumes on Screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than the answer to question 2.b, the answer to question 2.c is greater than zero, and/or the answer to question 2.e is greater than zero. A "No" will be displayed if the answer to question 2.a equals the answer to question 2.b, the answer to question 2.c equals zero, and/or the answer to question 2.e equals zero.

4. **Did the spill reach a storm drainpipe that is not part of a combined sewer system?***
This question is auto populated based on the answers to the Estimated Spill Volumes on Screen 1. A "Yes" will be displayed if the answer to question 2.a is greater than zero. A "No" will be displayed if the answer to question 2.a equals zero.

5. **If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?***
This answer is auto populated based on the answers to the Estimated Spill Volumes. A "Yes" will be displayed if the answer to question 2.b equals the answer to question 2.a. A "No" will be displayed if the answer to question 2.b is less than the answer to question 2.a.

6. **Spill location name:***
The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

7. **Latitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

8. **Longitude of spill location:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

9. **County:***
   The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

10. **Regional Water Quality Control Board:***
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

11. **Spill location description:**
    The answer to this question is carried over from Screen 1. See section 2.3.1 for guidance.

12. **Number of Appearance Points:***
    Enter the number of appearance points. If one SSO event results in multiple appearance points in a sewer system asset enter the number of appearance points if greater than one (1).

13. **Spill appearance point:***
    Select the spill appearance point from the "Spill Appearance Point:" dropdown. If you selected "other" you are required to enter a description in text box No. 14 below. The "Spill Appearance Point:" is where wastewater first surfaced on the spill site. Multiple spill appearance points can be selected by holding the CTRL key on your keyboard.

14. **Spill appearance point explanation:***
    If "Other" and/or multiple appearance points are selected, enter a description of the "Other" SSO appearance point not listed in the dropdown menu and/or, for multiple appearance points, enter a description including location details of each appearance point in this text field.

15. **Final spill destination:****
    Select the final destinations of the spill in the "Final Spill Destination" box. Multiple spill destinations can be selected by holding the CTRL key on your keyboard. If you selected "other" you are required to enter a description in text box No 16 below. The "Final Spill Destination:" describes all areas that the wastewater flowed through and ultimately reached, which means multiple entries can be selected if necessary.

16. **Explanation of final spill destination:**
    If the "final spill destination" is not listed in the dropdown menu and "Other" was selected, then enter a description of the final spill destination

17. **Estimated spill start date/time:***
    Enter the estimated spill start date/time in a 24-hour clock format.

18. **Date and time sanitary sewer system agency was notified of or discovered spill:***
    Enter when your agency was notified or discovered the spill date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

19. **Estimated Operator arrival date/time:***
    Enter the estimated Operator arrival date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

20. **Estimate spill end date/time:****
    Enter the estimated spill end date/time in a 24-hour clock format. The date/time has to be the later than the estimated spill start date/time.

21. **Spill cause: ****
    Select a cause for the spill from the dropdown menu. Multiple spill causes can be selected by holding the CTRL key on your keyboard. If the cause selected was "Other", you are required to enter an explanation in text box No. 22 below.

22. **Spill cause explanation: ****
    If the "spill cause" is not listed in the dropdown menu and "Other" was selected in question 21, then enter a description of the spill cause.

23. **Where did failure occur? ****
    Select where the failure occurred from the dropdown menu. Multiple failure locations can be selected by holding the CTRL key on your keyboard. If the cause selected is "Other" you are required to enter an explanation in text box No. 24 below.

24. **Explanation of where failure occurred:**
    If the "where failure occurred" is not listed in the dropdown menu and "Other" was selected in question 23, then enter a description of where the failure occurred.

25. **Was this spill associated with a storm event?****
    Select from the drop down whether a sewer flow condition resulting from storm induced inflow and/or infiltration where contributing factors for this SSO event.

26. **Diameter of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the size in inches of the diameter of the sewer pipe where the point of blockage of the pipe or failure occurred.

27. **Material of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the material of sewer pipe where the point of blockage of the pipe or failure occurred. Abbreviations such as PVC and VCP are acceptable.

28. **Estimated age of sewer asset at the point of blockage or failure (if applicable):**
    If applicable, enter the estimated age of the sewer asset, in whole numbers, where the point of blockage of the asset or failure occurred.

29. **Spill response activities:****
Select the response activities from the dropdown menu that your agency completed in responding to the spill. Multiple response activities can be selected by holding the CTRL key on your keyboard. If your selection was "Other", you are required to enter a description of the response activities in text box No. 30 below.

30. **Explanation of spill response activities:**
If the "spill response activities" completed are not listed in the dropdown menu and "Other" was selected, then enter a description of the spill response activities completed.

31. **Spill response completion date:****
Enter the spill response completion date/time in a 24-hour clock format (i.e., when agency staff completed their cleanup work). The date/time has to be later than the estimated spill start date/time.

32. **Spill corrective action taken:****
Select the corrective actions which were taken by your agency in response to the spill. Multiple corrective actions can be selected by holding the CTRL key on your keyboard. If your selection was "Other", you are required to enter a description of the corrective actions taken in text box No. 33 below.

33. **Explanation of spill corrective action taken:**
If the "spill corrective action taken" tasks completed are not listed in the dropdown menu and "Other" was selected, then enter a description of the spill corrective actions taken.

34. **Is there an ongoing investigation?****
Select "yes" from the dropdown menu if there is an ongoing investigation of the SSO. Select "no" from the dropdown menu if the investigation of the SSO has been completed.

35. **Visual inspection results from impacted surface water:**
Describe any observations made during visual inspections of surface waters impacted by the SSO.

36. **Health warnings posted?****
Select whether or not health warning signs or notices were posted at or near the water bodies, beaches, and/or other areas affected by the SSO.

37. **Did the spill result in a beach closure (If YES, answer question 38)?****
Select whether or not the SSO resulted in a beach or aquatic recreation area closure.

38. **Name of closed beach(es):****
Enter the names of any beaches or aquatic recreation areas closed by the SSO. Use commas to separate multiple entries.

39. **Name of impacted surface water(s):****
Enter the names of all surface waters impacted by the SSO. Use commas to

separate multiple entries. If a receiving surface water body is un-named, enter "Un-named Tributary to "XXXXX" where XXXXX is the name of the first named (e.g., on the USGS Topo Map for the area) downstream surface water body.

40. Water quality samples analyzed for:**
Select the water quality indicators for which water quality sample results were obtained. Multiple indicators can be chosen by holding the CTRL key on your keyboard. Select "No water quality samples taken" if the SSO reached a surface water, but water quality sampling was not performed. If your selection included "Other", "Other chemical indicator(s)", or "Biological Indicator(s)", you are required to enter an explanation of the other indicators analyzed in text box No. 41 below.

41. Explanation of water quality samples analyzed for:
If "Other", "Other chemical indicator(s)", or "Biological Indicator(s)" were selected, enter an explanation of the indicators analyzed in the water quality sample(s).

42. Water quality sample results reported to:**
Select which agencies the water quality sample results were reported to. Multiple agencies can be selected by holding the CTRL key on your keyboard. Select "No water quality samples taken" if the SSO reached a surface water, but water quality sampling was not performed. If your selection includes "Other", you are required to enter the names of the other agencies reported to in text box No. 43 below.

43. Explanation of water quality samples reported to:
If "Other" was selected, then enter the names of the other agencies the water quality sample results were reported to.

44. Explanation of volume estimation methods used:**
Provide a description of the method(s) used to estimate the volume of the spill. Attach your calculations and a sketch if needed. The explanation may reference estimation methods contained within your agency's SSO response procedures.

45. Cal OES Control Number:**
For spills of 1,000 gallons or greater, enter the control number received from Cal OES when you notified them of the SSO. The control number must be entered without dashes. If multiple notifications were made to Cal OES, use the control number for the first notification. The control number can also be found on the Cal OES website at: http://w3.calema.ca.gov/operational/malhaz.nsf/$defaultview.
NOTE: Per section B.3 of the SSS WDRs, Monitoring and Reporting Program (MRP), information provided to Cal OES must be updated related to volume and impacts to surface water if there are significant changes to this information after your initial report.

46. Cal OES called date/time:**
Enter the date and time Cal-OES was notified in a 24-hour clock format. If multiple notifications were made to Cal-OES, use the first call time associated with the control number entered in box No. 45 above. The call date and time can be found on the Cal OES website at: http://w3.calema.ca.gov/operational/malhaz.nsf/$defaultview

47. **SSO Contact information:***
    a. Name and Title (Contact person who can answer specific questions about this SSO)
    b. Contact Person Phone Number

2.4 PRIVATE LATERAL SEWER DISCHARGE (PLSD)

The MRP for the SSS WDRs requires that all Category 1, Category 2, and Category 3 SSOs from an Enrollee's sanitary sewer systems be reported to the SSO Database, however, when failures from Private Laterals result in sewage discharges and the enrollee has knowledge of it, they are not required to report those discharges to the SSO Database. The enrollee can, however, report the PLSD to the SSO Database voluntarily.

Generally, a sanitary sewer lateral is defined as the sewer line running from a connection to a sewer main line to a structure or facility connected to that sanitary sewer system. The lower lateral is usually defined as that portion of the lateral running from the point of connection to the sewer main to the property line or easement line of the parcel being served. The upper lateral is usually defined as that portion of the lateral running from the property or easement line to the structure(s) being served. Some sewer agencies do not own or maintain either portion of the lateral, some agencies own and maintain only the lower lateral, and in some cases, an agency may own and maintain both the upper and lower lateral.

There are thirty four (34) questions total with, depending on how the location information is answered, twelve to fifteen (12-15) of those questions that have to be answered to complete a PLSD report.

2.4.1 PLSD REPORT

1. **Spill Location Name:***
   Enter the name of the party responsible for the spill. Do not enter private party information (i.e., name or other identifying information).

2. **Estimated spill volume?***
   Enter the total estimated spill volume. This can be ascertained by questioning the property occupants regarding the spill duration and estimating the volume using standard spill volume estimation methods.

3. **Did the spill discharge to a drainage channel and/or surface water?***
   This can be determined by the physical evidence at the site.

4. **Did the spill reach a storm drainpipe that is not part of a combined sewer system?***
   This can be determined by the physical evidence at the site.

5. **If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?***
   If your agency assisted the private property owner in the cleanup of the site this can be determined. The answer may also be determined by questioning property owners.

6. **Estimated volume of spill recovered:**
   If your agency assisted the private property owner in the cleanup of the site this can be determined. The answer may also be determined by questioning the property occupants.

7. **Estimated volume of spill that reached surface water, drainage channel, or not recovered from a separate storm drain:**
   If your agency assisted the private property owner in the cleanup of the site this can be determined. The answer may also be determined by questioning the property occupants.

8. **Latitude of spill location (only required if questions 10-14 are not answered): ***
   If questions 10 – 14 are not answered, enter the latitude of the spill location. A handheld GPS unit or the "GIS Tool" link on the SSO Database spill report page can be used to determine this information. This field must be completed to "submit draft" for any SSO report but not to "save work in progress".

9. **Longitude of spill location(only required if questions 10-14 are not answered): ***
   If questions 10 – 14 are not answered, enter the longitude of the spill location. A handheld GPS unit or the "GIS Tool" link on the SSO Database spill report page can be used to determine this information. This field must be completed to "submit draft" for any SSO report but not to "save work in progress".

10. **Physical Location Details (only required if questions 8 & 9 are not answered):***
    If questions 8 and 9 are not answered, for questions 10 – 14, enter the street number, street name, Suite or Apt, City and zip code of the site of the PLSD.

15. **Spill location description:**
    Enter a detailed spill location description. This field is optional and allows for a detailed description of the spill site including any significant characteristics or considerations.

16. **Spill appearance point:***
    Select the spill appearance point from the "Spill Appearance Point:" dropdown. If you selected "other", you are required to enter a description in text box No. 17 below. The "Spill Appearance Point:" is where wastewater first surfaced on the spill site. Multiple spill appearance points can be selected by holding the CTRL key on your keyboard.

17. **Spill appearance point explanation:**
    If "Other" and/or multiple appearance points are selected, enter a description of the "Other" SSO appearance point not listed in the dropdown menu and/or, for multiple appearance points, enter a description including location details of each appearance point in this text field.

18. **Final spill destination:**
    Select the final destinations of the spill in the "Final Spill Destination" field. Multiple spill locations can be selected by holding the CTRL key on your keyboard. If you selected "other", you are required to enter a description in text box No 19 below. The

"Final Spill Destination" describes all the areas that wastewater flowed through and ultimately reached, which means multiple entries can be selected if necessary.

19. **Explanation of final spill destination:**
    If the "final spill destination" is not listed in the dropdown menu and "Other" was selected question 18, then enter a description of the final spill destination

20. **Estimated spill start date/time:***
    Enter the estimated spill start date/time in a 24-hour clock format.

21. **Date and time sanitary sewer system agency was notified of or discovered the spill: ***
    Enter the date/time, in a 24-hour clock format, when your agency was notified or discovered the spill. The date/time has to be the same or later than the estimated spill start date/time.

22. **Estimated Operator arrival date/time:**
    Enter the estimated Operator arrival date/time in a 24-hour clock format. The date/time has to be the same or later than the estimated spill start date/time.

23. **Estimated spill end date/time:**
    Enter the estimated spill end date/time in a 24-hour clock format. The date/time has to be the later than the estimated spill start date/time.

24. **Spill cause:***
    Select a cause for the spill from the dropdown menu. Multiple spill causes can be selected by holding the CTRL key on your keyboard. If the cause selected was "Other", you are required to enter an explanation in text box No. 25 below.

25. **Spill cause explanation:**
    If the "spill cause" is not listed in the dropdown menu and "Other" was selected in question 24, then enter a description of the spill cause.

26. **PLSD Source:**
    Select the source of the spill from the dropdown menu. Multiple sources can be selected by holding the CTRL key on your keyboard. If the source selected is "Other", you are required to enter an explanation in text box No. 27 below.

27. **Explanation of PLSD Source:**
    If the "PLSD Source" is not listed in the dropdown menu and "Other" was selected in question 26, then enter a description of the PLSD Source.

28. **Where did failure occur?***
    Select where the failure occurred from the dropdown menu. Multiple failure locations can be selected by holding the CTRL key on your keyboard. If the location selected is "Other", you are required to enter an explanation in text box No. 29 below.

29. **Explanation of Where Failure Occurred:**
    If the "where failure occurred" is not listed in the dropdown menu and "Other" was selected in question 28, then enter a description of where the failure occurred.

30. **Diameter of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the lateral diameter in inches.

31. **Material of sewer pipe at the point of blockage or failure (if applicable):**
    If applicable, enter the material type of the lateral.

32. **Estimated age of sewer asset at the point of blockage or failure (if applicable):**
    If applicable, enter the estimated age of the sewer asset in whole numbers.

33. **Spill response activities:**
    Select the response activities from the dropdown menu that your agency completed in responding to the spill. Multiple response activities can be selected by holding the CTRL key on your keyboard. If your selection was "Other", enter a description of the response activities in text box No. 34 below.

34. **Explanation of spill response activities:**
    If the "spill response activities" completed are not listed in the dropdown menu and "Other" was selected in question 33, then enter a description of the spill response activities completed.

2.5 NO SPILL CERTIFICATION

The SSS WDRs require enrollees to certify on a monthly basis in the SSO Database that they have not had any overflows for months in which they do not report one or more SSOs. This is a simple process that takes about three clicks of a mouse.

When you are at the main SSO Database screen for your sanitary sewer system, click on the "Generate No Spill Certification" button and the no spill certification screen will appear. You will see three items: (1) a paragraph starting with "I certify under penalty of law that …"; (2) drop downs and a certification button; and (3) a list of previous No Spill Certifications that your sanitary sewer system staff has submitted (see sample below).

To certify a no-spill month, use the two drop downs to select the month and year and then click on the "Certify" button and your certification will be added to the list below. You should note that in reviewing the list of previous certifications, if you find a month that had no spills and for some reason it was not reported, you can certify that month at any time.

If you have a spill that continues over two months (i.e., starts on the last day of a month but is not stopped until the next month), you should report the spill on the month that it started and, if no other spills occur in the next month in which the spill ended, then that month can be considered a no-spill month. If you have reported one or more Private Lateral Sewage Discharges in a given month but had no SSOs then, a no-spill certification is required to be submitted for that month.

3.0 FREQUENTLY ASKED QUESTIONS

1. **What is a sanitary sewer overflow (SSO)?**
   An SSO is any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:

   a. Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
   b. Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
   c. Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

   If a release of sewage in a construction trench results from construction activity, this is not considered an SSO unless the spill escapes the construction trench.

2. **What is a sanitary sewer system?**
   Any system of pipes, pump stations, sewer lines or other conveyances, upstream of a wastewater treatment plant head-works, used to collect and convey wastewater to the publicly owned treatment facility or another sanitary sewer system. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, but discharges into these temporary storage facilities are not considered to be SSOs. Other common terms for a sanitary sewer system are collection system, wastewater collection system, and sewer system (not to be confused with a storm sewer).

3. **What is the purpose of Statewide General Waste Discharge Requirements for Sanitary Sewer Systems – Water Quality Order No. 2006-0003-DWQ (SSS WDRs)?**
   The purpose of the SSS WDRs is to uniformly regulate sanitary sewer systems throughout the State in an effort to reduce the number and volume of SSOs. The SSS WDRs requires sanitary sewer system agencies to implement sewer system management plans and electronically report all SSOs. The SSS WDRs is available for viewing on the State Water Resource Control Board's (State Water Board's) SSO program web page – www.waterboards.ca.gov/sso/index.html.

4. **Who has to apply for coverage under the SSS WDRs?**
   All federal and state agencies, municipalities, counties, districts, and other public entities that own or operate a sanitary sewer system comprised of more than one mile of pipes or sewer lines which collects and conveys untreated wastewater to a publicly owned treatment facility in the State of California are required to apply for coverage under the SSS WDRs. If your sanitary sewer system has one mile or less of sewer pipes or lines, your agency is not required to apply for coverage under the SSS WDRs.

5. **How does a sanitary sewer system agency apply for coverage under the SSS WDRs?**
   To apply for coverage under the SSS WDRs, an agency needs to complete and submit a Notice of Intent (available at State Water Board's SSO program web

page - http://www.waterboards.ca.gov/water_issues/programs/sso/docs/noi.pdf) to the State Water Board at the address listed on the form. Additionally, instructions on how to complete the Notice of Intent form are available on the SSO program web page.

6. **Do sanitary sewer system agencies have to report all SSOs?**
   Yes. All SSOs from sanitary sewer systems that are covered under the SSS WDRs must be reported electronically to the State Water Board's online SSO Database through the California Integrated Water Quality System (CIWQS). This reporting is in addition to any other notification/reporting that the sanitary sewer system agency is required to do for other State agencies.

7. **How do sanitary sewer system agencies report SSOs to meet the requirements of the SSS WDRs?**
   SSO reports are submitted electronically through the State Water Board's online SSO Database available at http://ciwqs.waterboards.ca.gov/.

8. **Do sanitary sewer system agencies still have to report SSOs to other agencies?**
   Yes. Sanitary sewer system agencies must fulfill any and all other applicable SSO reporting requirements pertaining to other agencies or statutes/regulations. The reporting requirements of the SSS WDRs do not supersede or preclude, and are in addition to, reporting requirements from other agencies.

   Typically, reporting to other agencies is limited to notification of Cal OES for spills to surface water of 1,000 gallons or more and notification of your local Health Department for spills meeting their threshold reporting requirements. When Cal OES is notified, they will notify all applicable agencies in your jurisdiction of the spill. You should inquire with your local agencies and Health Department staff regarding their notification and reporting requirements.

9. **If a sanitary sewer system agency doesn't have any SSOs during the month, does it still have to report?**
   Yes. If no SSOs occurred during a calendar month, the sanitary sewer system agency must submit a "no spill" certification in the SSO Database.

10. **Do sanitary sewer system agencies covered under the SSS WDRs have to report a SSO that results in sewage spilling into someone's home or onto private property?**
    If the SSO is caused by blockages or flow conditions within the publicly owned portion of the sanitary sewer system, then it must be reported to the SSO Database as an SSO, regardless of the specific spill appearance point.

11. **What is a sewer system management plan (SSMP)?**
    An SSMP is a plan and schedule to properly manage, operate, and maintain all parts of the agencies sanitary sewer system. The SSS WDRs specifies the elements to be included in an SSMP.

12. **Who has to implement an SSMP?**
    All sanitary sewer system agencies that are covered under the SSS WDRs must develop and implement an SSMP.

13. **When do sanitary sewer system agencies have to implement their SSMP?**
    The Statewide General WDRs for Sanitary Sewer Systems (SSS WDRs), WQO No. 2006-0003-DWQ specifies the SSMP implementation schedule that each sanitary sewer system agency was required to follow on adoption of the SSS WDRs. If you are enrolling after adoption of the SSS WDRs, contact State Water Board SSO Reduction Program staff, and they will work out a reasonable schedule with you for development of the SSMP.

14. **What if an element of the SSMP isn't applicable to an agency's sanitary sewer system?**
    The sanitary sewer system agency doesn't need to implement an element of the SSMP if it isn't applicable to their sanitary sewer system. However, the agency must provide an explanation in the SSMP of why that element isn't applicable to their sanitary sewer system and a statement indicating that element will be added if it becomes applicable in the future. If that element becomes applicable in the future, the agency must develop and implement that specific element.

15. **Does a sanitary sewer system agency covered under the SSS WDRs have to report the status of their SSMP implementation?**
    Yes. Each completed phase of an agency's SSMP implementation must be certified in the SSO Database.

16. **Do sanitary sewer system agencies have to pay a fee if they are covered under the SSS WDRs?**
    Yes. All sanitary sewer system agencies covered under the SSS WDRs must pay an annual fee according to the State Water Board's Waste Discharge Requirement Fee Schedule. Once enrolled, agencies will be automatically billed each subsequent year by the State Water Board.

17. **How do I remove an erroneous SSO Report or a No-Spill Certification from the database?**
    If an SSO or No-spill Certification needs to be removed from the database, the CIWQS Help Center needs to be contacted by email. The email should specify the event id# and include a brief explanation of why SSO report of No-Spill Certification should be removed. Valid reasons for SSO Report deletions include, but may not be limited to, duplicate reports and erroneous reports (e.g., the spill turned out to be potable water). Valid reasons for No-Spill certification removals include, but may not be limited to, erroneous No-Spill certifications (e.g., there actual was an SSO in the agencies system for the month in which the No-Spill certification was filed).

18. **How often do I have to update my sanitary sewer system Questionnaire?**
    The Sanitary Sewer System Questionnaire is required to be updated at least every twelve months. If you do not update the Sanitary Sewer System Questionnaire within twelve months of initially filling it out or your last update, the SSO Database will not allow you to enter any reports or certifications until the questionnaire is updated.

19. **How do I certify the SSMP elements in CIWQs?**
    Once the SSMP elements are completed the completion dates for each of the elements is required to be entered in the SSO Database by the agencies LRO.

20. How do I reset my Password?
The password can be reset manually in the SSO Database login screen (https://ciwqs.waterboards.ca.gov/ciwqs/forgotPassword.jsp) or by calling the CIWQS Help Center at 866-79-CIWQS (24977).

21. Why do I receive the automated email reminders?
The Email reminders are sent each month to sanitary sewer systems enrolled in the SSS WDRs with outstanding reporting issues like missed No-Spill certifications or draft reports that are overdue for certification. The outstanding items will be listed in the email reminders until the items are completed or corrected in the SSO Database.

22. How do I remove personnel (i.e., LROs and DSs) from the SSO Database?
Agencies are required to notify the State Water Board when there is a change in personnel registered in the SSO Database (e.g., an LRO retires). Request for removal of personnel registered in the SSO Database should be made in writing to the CIWQS Help Center at CIWQS@waterboards.ca.gov.

23. How do I become a Legally Responsible Official (LRO) or Data Submitter (DS) for my agency?
The forms can be downloaded from the SSO Reduction Program Website:
http://www.waterboards.ca.gov/water_issues/programs/sso/docs/lro_form.pdf
http://www.waterboards.ca.gov/water_issues/programs/sso/docs/datasubmitter_form.pdf

Agencies are encouraged to enroll multiple personnel as LROs and DSs to ensure SSO reporting and other reporting requirements of the SSS WDRs can be completed on time in the case of staff vacations, sickness, etc.

24. Can I share my username and password?
NO, that activity is considered a fraudulent activity and may be prosecuted as criminal activity.

25. Who can be contacted for additional information?
For additional information, please contact the:

CIWQS Help Center
Phone: 866-79-CIWQS (24977)
Email: ciwqs@waterboards.ca.gov
Monday through Friday (excluding State Holidays)
8:00 a.m. - 5:00 p.m.

Or

SSO Reduction Program Staff
http://www.waterboards.ca.gov/water_issues/programs/sso/index.shtml#contact

26. What INFORMAL enforcement could an Enrollee expect for not complying with the SSS WDRs?

a. Verbal warning.
b. Notice of Violation (NOV).
c. Staff Enforcement Letter
   i. Penalties of $10,000 per day and $10 per gallon for spills over 1,000 gallons (per Water Code 13350 or 13383).

For additional information, contact the State Water Board Office of Enforcement at 916-341-5272.

27. What FORMAL enforcement could an Enrollee be subject to for not complying with the SSS WDRs?

a. Water Code 13267 Order:
   i. Technical report/justified by need.

b. Discharge To Surface Waters/Storm Drain Not Recovered:
   i. Penalties of $10,000 per day and $10 per gallon for spills over 1,000 gallons (per Water Code 13350 or 13383)

c. Violations of the SSS WDRs not associated with a discharge:
   Water Code 13268 violations ($1,000 per day for failure to):
   i. Failure to comply with any MRP requirement, including:
      1. Failure to report and certify all SSOs.
      2. Failure to accurately reporting (i.e., intentional falsification) of any SSO.
      3. Failure to provide 2 hour notification for an SSO to surface water of 1,000 gallons or more.
      4. Failure to submit a draft SSO report within the required time line (e.g., failure to submit draft Category 2 SSO report within 3 business days).
      5. Failure to submit a certified SSO report within the required time line (e.g., failure to submit certified Category 1 SSO report within 15 business days).
      6. Failure to certify SSMP elements within the required timeframes.
      7. Failure to implement the SSMP as specified in the adopted plan.
      8. Failure to comply with any record keeping requirement.
      9. Failure to complete the questionnaire or update it every twelve months.
      10. Failure to complete an SSMP audit within required timeframes.

28. Where can I find some examples of FORMAL enforcement actions that have been taken by the State or Regional Water Boards?

a. Enforcement Reports.
b. Region 3 (Central Coast Water Board).
c. Region 9 (San Diego Water Board).
d. Region 2 (San Francisco Bay Area Water Board).
e. Region 4 (Los Angeles Water Board).
f. Region 5 (Central Valley Water Board).

29. **If my agency owns multiple sanitary sewer systems of one mile or greater that are not contiguous, are we required to submit an NOI (i.e., enroll) each sanitary sewer system separately or can they all be included under one NOI?**
Enrollees who own multiple sanitary sewer systems meeting enrollment requirements that are not physically connected are required to enroll each distinct sanitary sewer system separately under the SSS WDRs if they are managed as distinct assets in the form of separate sanitation districts, under separate operations and maintenance, and/or capital improvement budgets, or are otherwise managed as distinct and separate sanitary sewer systems.

30. **What is the difference between a PLSD and an SSO?**
The failure point determines the difference between a PLSD and an SSO. PLSDs are sewage discharges that are caused by blockages or other problems within a privately-owned lateral or other private sewer asset, regardless of actual sewage appearance point(s). SSOs are sewage discharges that are caused by blockages or other problems within the publicly-owned sanitary sewer system, regardless of actual sewage appearance point(s). For instance, if a blockage in the publicly –owned sanitary sewer system causes a back-up in a private residence (e.g., a basement, a cleanout), the overflow should be reported to the SSO Database as an SSO not a PLSD.

31. **Do I have to submit my internal two-year audits to the State and Regional Water Boards?**
No, unless it is requested by the State and/or Regional Water Boards. The Audit findings should be kept in your records and made available upon State and/or Regional Water Board staff request.

32. **When is governing board approval required for changes to the SSMP?**
The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the SSMP is only required, in accordance with section D.14 of the SSS WDRs, when significant updates to the SSMP are made. Significant updates generally mean SSMP updates requiring additional monies to implement the SSMP which must be approved by the governing board.

33. **Can I register multiple LROs and DSs for my sanitary sewer system?**
Yes, it is encouraged to have multiple LROs and DSs. See Section 1.1 for additional information.

34. **Where can I access SSO data submitted by my agency?**
SSO data is publicly available via the SSO Reduction Program website.
    a. Interactive SSO Report - The SSO Report allows users to view summary information of the certified SSOs reported by Enrollees as well as complete certified reports submitted for specific sewage discharge locations.

    b. Public Sewage Spill Incident Map - These interactive geographic information system (GIS) maps, updated nightly, graphically display all certified sanitary sewer overflow (SSO) reports entered by enrolled sanitary sewer systems. The GIS map data includes the spill location, amount, cause, and name of the responsible or reporting agency.

c. SSO Data Flat Files – These files contain all the raw data submitted to the SSO Database. The raw data files include draft, work in progress, and certified SSO and PLSD reports.

35. Do I have to notify other agencies if my agency intends to recover sewage from a surface water?

Yes. Based on guidance from the California Department of Fish and Wildlife (CDFW), Lake and Streambed Alteration Program, Habitat Conservation Planning Branch staff, the following notifications and permits may be required to recover water from a surface water body:

For Lake and Streambed Alteration program purposes, a formal notification to the Department will be necessary to block a creek for any purpose. If the applicant has an agreement before the spill occurs, there will likely be measures within the agreement that include a spill contingency plan outlining steps necessary to protect fish and wildlife resources.

In the event of an emergency, work can begin without entering into an agreement with the Department, however an Emergency Notification must still be sent to the Department within 14 days of beginning work. Emergencies are defined by the program as follows:

1) Immediate emergency work necessary to protect life or property;

2) Immediate emergency repairs to public service facilities necessary to maintain service as a result of a disaster in an area in which the Governor has proclaimed a state of emergency; and/or

3) Emergency projects undertaken, carried out, or approved by a state or local governmental agency to maintain, repair, or restore an existing highway, as defined in Vehicle Code section 360, within the existing right-of-way of the highway, that has been damaged as a result of fire, flood, storm, earthquake, land subsidence, gradual earth movement, or landslide, within one year of the damage.

The Notification forms, instructions and current fee schedule can be accessed online at http://www.dfg.ca.gov/habcon/1600/forms.html. The complete Notification along with all applicable fees should be sent to the regional office serving the county in which the project will take place. Regional contact information can also be accessed online at http://www.dfg.ca.gov/regions/. Enrollees can contact CDFW at **1-888-334-2258.**

If there are listed species, the entity may need an Incidental Take Permit (ITP) from the California Endangered Species Act (CESA) permitting program. A regional representative for the office serving the county in which a project may take place will be able to assist you in navigating the Department permits an entity may need for this type of work. You can find contact information for regional offices online at http://www.dfg.ca.gov/regions/.

In addition, the agencies noted below may also need to be contacted to gain approval for diverting water from waters of the U.S. and waters of the State:

State agencies:

- Coastal Commission
- Department of Conservation
- Department of Forestry
- Department of Water Resources
- Regional Water Quality Control Boards
- State Lands Commission

Federal agencies:

- NOAA Fisheries
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- U.S. Forest Service

SSO Reduction Program Staff acknowledges the efforts that some agencies take to mitigate the effects of SSOs that reach surface waters. However, staff believes that regardless of the amount of wastewater recovered from a surface water, the damage to the surface water may not be mitigated, and may be exacerbated, by recovery of the comingled sewage and receiving water. Each case is unique, and the enrollees should follow the procedures outlined in their Overflow Emergency Response Plan element of the SSMP to cleanup and mitigate the effects of their SSOs.

4.0 LIST OF ACRONYMS

BACWA	Bay Area Clean Water Agencies
BMP	Best Management Practice
CCTV	Closed-Circuit Television
CDO	Cease and Desist Order
CIP	Capital Improvements Program
CIWQS	California Integrated Water Quality System
CMMS	Computerized Maintenance Management System
CVCWA	Central Valley Clean Water Agencies
CWEA	California Water Environmental Association
CY	Calendar Year
DS	Data Submitter
DWQ	Department of Water Quality (of the State Water Resources Control Board)
ES	Executive Summary
FOG	Fats, Oils, and Grease
FSE	Food Service Establishments

FY	Fiscal Year
GIS	Geographic Information System
GSC	Grease Source Control
I/I	Infiltration and Inflow
LRO	Legally Responsible Official
MUD	Municipal Utility District
NGO	Non-Government Organization
NOV	Notice of Violation
O&M	Operations & Maintenance
PLCO	Property Line Clean-Out
PM	Preventive Maintenance
POTW	Publicly Owned Treatment Works
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RWQCB	Regional Water Quality Control Board
SCADA	Supervisory Control and Data Acquisition
SECAP	System Evaluation and Capacity Assurance Plan
SOP	Standard Operating Procedure
SSMP	Sewer System Management Plan
SSO	Sanitary Sewer Overflow
SSS WDR	Waste Discharge Requirements for Sanitary Sewer Systems
SWRCB	State Water Resources Control Board
TVI	Television Inspection
USEPA	United States Environmental Protection Agency
VCP	Vitrified Clay Pipe
WDR	Waste Discharge Requirements
WDID	Waste Discharge Identification Number
WEF	Water Environment Federation
WWTP	Wastewater Treatment Plant

5.0 GLOSSARY OF TERMS

Enrollee – A public entity that owns or operates a sanitary sewer system and has submitted a complete and approved application for coverage under Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WQO No. 2006-0003-DWQ)

Event ID – A unique identifier assigned by the SSO Database to each reported SSO or private lateral sewage discharge.

Lateral (also called Service Lateral) – The segment of pipe which connects a private home, building, or development to the publicly owned sewer main. The responsibility for maintaining a lateral can be solely that of the sewerage agency or private property owner; or it can be shared between the two parties. Local communities and land ownership dictate lateral responsibility and the basis for a shared arrangement, if it applies. See Lower Lateral and Upper Lateral definitions.

Lower Lateral – That portion of a lateral usually from the property line or easement line to the sewer main. Sewer agencies may or may not be responsible for maintenance of this portion of the lateral. If not, the lower lateral is owned and maintained by the property owner of the property its serves.

Miles of Private Laterals – Amount of private laterals tributary to an Enrollee's sanitary sewer system, which private property owners are responsible for maintaining, expressed in miles.

Percent Reached Surface Water – Volume of sewage discharged from an SSO or PLSD that reached surface water divided by the total volume of the SSO or PLSD.

Percent Recovered – Volume of the SSO or PLSD that was captured and returned to the sanitary sewer system or private lateral divided by the total volume of the SSO or PLSD.

Private Lateral – Privately owned lateral.

Private Lateral Sewage Discharge (PLSD) – Sewage discharges that are caused by blockages or other problems within privately owned laterals or other private swer system assets which are tributary to the reporting Enrollee's sanitary sewer system. Reports of these events are submitted by Enrollees on a voluntary basis but are not their responsibility. This type of sewage discharge is the responsibility of the private lateral owner.

Sanitary Sewer Overflow (SSO) – Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:

i. Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;

ii. Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States ; and
iii. Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

Sanitary Sewer System – For the purposes of the SSS WDRs, any system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant head works which is comprised of more than one mile of pipes and sewer lines, used to collect and convey wastewater to a publicly owned treatment facility.

Service Lateral – See Lateral definition.

Spill – Generic term referring to any sewage discharge (i.e., SSO or private lateral sewage discharge) resulting from a failure in a sanitary sewer system or privately owned lateral or other private sewer system asset.

SSO Category 1 – Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water; or

- Reach a municipal separate storm sewer system and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the municipal separate storm sewer system is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or ground water infiltration basin (e.g., infiltration pit, percolation pond).

SSO Category 2 – Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee's sanitary sewer system failure or flow condition that do not reach a surface water or a drainage channel. Discharges that reach a municipal separate storm sewer system are considered Category 2 SSOs if the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.

SSO Category 3 – All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition. Specifically, discharges of untreated or partially treated wastewater of less than 1,000 gallons resulting from an enrollee's sanitary sewer system failure or flow condition that do not reach a surface water or a drainage channel. Discharges of less than 1,000 gallons that reach a municipal separate storm sewer system are considered Category 3 SSOs if the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.

SSO Database – Online reporting system developed, hosted, and maintained by the State Water Resources Control Board for compliance with the Monitoring and Reporting Program contained in the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WQO No. 2006-0003-DWQ).

Total # of SSOs per 100 miles of Sewer – Broad metric used to compare the relative performance of Enrollees and their sanitary sewer systems. This metric expresses the number of SSOs, for which the reporting Enrollee is responsible, for every 100 miles of pipe or sewer lines in an Enrollee's sanitary sewer system. Due to the large variation in facility specific characteristics, this metric should only be viewed as a rough comparison of the operation and maintenance performance of Enrollees and their sanitary sewer systems. The metric is calculated as described below:

$$SSOs\ per\ 100\ Miles\ of\ Sewer = \frac{Total\ Number\ of\ SSOs}{Total\ Miles\ of\ Pipe\ *} \times 100$$

** Miles of Pressure Sewer + Miles of Gravity Sewer + Miles of Public Laterals*

Total Volume of SSOs Reached Surface Water per 100 miles of Sewer – Broad metric used to compare the relative performance of Enrollees and their sanitary sewer systems. This metric expresses the volume of SSOs, for which the reporting Enrollee is responsible, that reached surface water for every 100 miles of pipe or sewer lines in an Enrollee's sanitary sewer system. Because sewage discharges that reach surface water pose a greater threat to public health and the environment, this metric reflects some accounting of the impact posed by an Enrollee's SSOs. Due to the large variation in facility specific characteristics, this metric should only be viewed as a rough comparison of the operation and maintenance performance of Enrollees and their sanitary sewer systems. The metric is calculated as described below:

$$SSO\ Volume\ Reaching\ SW\ (gal) = \frac{Total\ SSO\ Volume\ Reachign\ SW}{Total\ Miles\ of\ Pipe\ *} \times 100$$

** Miles of Pressure Sewer + Miles of Gravity Sewer + Miles of Public Laterals*

Total Volume Reached Surface Water – Amount of sewage discharged from a sanitary sewer system or private lateral or other private sewer system asset that reaches a surface water.

Total Volume Recovered – Amount of sewage discharged that was captured and returned to the sanitary sewer system or private sewer system asset.

Upper Lateral – Portion of a lateral usually from the building foundation to the property line or easement line where it is connected to the Lower Lateral. Sewer agencies usually do not own and maintain this portion of a Lateral. That responsibility is usually with the owner of the property the lateral serves.

WDID – Waste Discharge Identification number which is a unique identifier assigned by the State Water Board to each Enrollee for regulatory record and data management purposes.

6.0 SPILL FORMS AND QUESTIONNAIRE EXAMPLES



6.1 QUESTIONNAIRE



CIWQS

Menu | Help | Log out

Navigate to:

You are logged-in as: SSO Demo . If this account does not belong to you, please log out.

SSO - Questionnaire ? SSO Menu

Regional Water Board: Region 5S - Sacramento
Agency: State Water Resources Control Board
Sanitary Sewer System: Demo South CS
WDID: 5SSO10000

Collection System Questionnaire

Save

Note: All questions are required to be answered. Enter NA or 0 for questions that do not apply.

Last updated: 2013-07-24 **First updated:** 2007-04-10

Collection System Questionnaire ?

1) Sanitary Sewer System Category: Municipal (Public)

2) What is the population served by your agency's sanitary sewer system? 1,000

3) What is your current annual operation and maintenance budget for sanitary sewer system facilities? $50,000

4) What is your current annual capital expenditure budget for sanitary sewer system facilities? $100,000

Please identify the total number of employees (technical and mechanical) for your agency's sanitary sewer system (including pump station operations) working within the different classifications listed below.

5) Entry Level (Less than 2 years experience)
Number of agency employees? 1

6) Journey Level (Greater than or equal 2 years experience)
Number of agency employees? 2

7) Supervisory Level
Number of agency employees? 3

8) Managerial Level
Number of agency employees? 4

Please identify the total number of employees who hold CWEA Certification for Collection System Maintenance and/or Plant Maintenance-Includes Mechanical Technologist and Electrical/Instrumentation for your agency's sanitary sewer system (including pump station operations) for the various Certificates and Grades levels listed below.

9) Grade I
Number of certified (Grade I Collection System Maintenance) agency employees: 1
Number of certified (Grade I Plant Maintenance Technologist) agency employees? 2

10) Grade II
Number of certified (Grade II Collection System Maintenance) agency employees: 1
Number of certified (Grade II Electrical/Instrumentation Technologist) agency employees: 1
Number of certified (Grade II Mechanical Technologist) agency employees: 1

11) Grade III
Number of certified (Grade III Collection System Maintenance) agency employees: 1
Number of certified (Grade III Electrical/Instrumentation Technologist) agency employees: 1
Number of certified (Grade III Mechanical Technologist) agency employees: 1

12) Grade IV
Number of certified (Grade IV Collection System Maintenance) agency employees: 1
Number of certified (Grade IV Electrical/Instrumentation Technologist) agency employees: 1
Number of certified (Grade IV Mechanical Technologist) agency employees: 1

13) OFFICE OF WATER PROGRAMS at CALIFORNIA STATE UNIVERSITY's CERTIFICATES OF COMPLETION
Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume I) agency employees: 0
Number of certified (Operation and Maintenance of Wastewater Collection Systems, Volume II) agency employees: 0

14) Estimated Size Distributions of Assets (note: total % must sum to 100%)

Diameter of sewer pipe	Gravity Mainlines (%)	Force Mains (%)

http://water24.waterboards.ca.gov/mrp_sso/ssoQuestionnaire.jsp?module=15&csID=643191 7/24/2013

6 inches or less	14	14
8 inches	14	14
9 - 18 inches	14	14
19 - 36 inches	14	14
> 36	14	14
Unknown Diameter	30	30
Totals	100	100

15) How many miles of forced mains and other pressure systems? 2

16) How many miles of gravity sewers? 20

17) Estimated total miles of laterals (upper and lower)? 50

18) Which portion of laterals is your agency responsible for? Lower only

(If the answer of question-18 is None, answer 0 (zero) for question-19)

19) Estimated total miles of laterals your agency is responsible for? 25

20) Number of service lateral connections? 100

21) Approximately, what percentage of your sewer system piping and mumber of pump stations were constructed between the years of: (note: total % must sum to 100%)

Age	Gravity Mainlines & Force Mains (%)	Pump Stations (*) 75k Gal/day & Over (number of stations)	Pump Stations (*) Under 75k Gal/day (number of stations)
2000 - Present	1	1	2
1980 - 1999	1	0	0
1960 - 1979	1	0	0
1940 - 1959	1	0	0
1920 - 1939	1	0	0
1900 - 1919	1	0	0
Before 1900	1	0	0
Unknown Age	93	0	0
Totals	100	1	2

(*) For pump stations, flow categories are the maximum flow rate occurring over a 24-hr period based on annual operating data (i.e., flow measurement) or calculated peak flow (e.g., # EDUs x Flow/EDU x Peaking Factor). Age is date asset was originally constructed.

22) Estimated total miles of your sewer system not accessible for maintenance? 22

23) How many miles of sewer system did you clean last year(miles)? 23

24)How many miles of sewer system did you inspect(e.g., CCTV) last year (miles)? 24

25) Estimated Sewer System Flow Characteristics

Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)
25	25

26) Where does this Sanitary Sewer System Discharge to?

Where it goes?	Name	WDID
WWTP same agency	Wastewater Treatment Plant	5 12345678
Select ...		
Select ...		
Select ...		

27a) Are there any tributary sanitary sewer systems? Yes

27b) If yes, please list below:

Tributary system owned by your agency?	Tributary Collection System Name	Tributary Collection System WDID
No	Example CS	5SSO12345
Select ...		

Select ...			
Select ...			

28) How many gravity mainline aerial or under ground crossings of water bodies (i.e. gravity sewer lines crossing over water bodies) are located throughout the sewer system	2
29) How many force main aerial or under ground crossings of water bodies (e.g. pressurized sewer lines crossing over or under water bodies) are located throughout the sewer system?	2
30) How many siphons used to convey sewage are located throughout the sewer system?	2

Save

Note: All questions are required to be answered. Enter NA for questions that do not apply or unknown.

Export Questionnaire History To Excel

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6.2 SSO CATEGORY 1



CIWQS

Menu | Help | Log out

Navigate to:

You are logged-in as: SSO Demo. If this account does not belong to you, please log out.

Spill - General Information ? SSO Menu

Spill Event ID:	New	**Regional Water Board:**	Region 5S - Sacramento
Spill Location Name:	Test	**Agency:**	State Water Resources Control Board
WDID:	5SSO10000	**Sanitary Sewer System:**	Demo South CS

General Info | Spill Related Parties | Attachments

Spill - General Information, Screen 2

Save Work in Progress | Submit Draft | Ready to Certify

You have 59:54 *minutes to save your report before your session expires.*

Note: Questions with "" are required to be answered for 'Save Work in Progress'.*
Questions with "" are required to be answered for 'Submit Draft'.*
*Questions with "***" are required to be answered for 'Ready to Certify'.*

Submit Draft On:

Last Updated By: SSO Demo

1 - Spill Type: Category 1

*** 2 - Estimate Spill Volumes**

a) Estimated spill volume that reached a separate storm drain that flows to a surface water body?	0 gallons
b) Estimated spill volume recovered from the separate storm drain that flows to a surface water body? (Do not include water used for clean-up)	0 gallons
c) Estimated spill volume that reached a drainage channel that flows to a surface water body?	0 gallons
d) Estimated spill volume recovered from a drainage channel that flows to a surface water body?	0 gallons
e) Estimated spill volume discharged directly to a surface water body?	1 gallons
f) Estimated spill volume recovered from surface water body?	0 gallons
g) Estimated spill volume discharged to land? (Includes discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location.)	0 gallons
h) Estimated spill volume recovered from the discharge to land? (Do not include water used for clean-up)	0 gallons

Estimated Total spill volume to Reach Surface Water (a-b+c+e)	Estimated Total spill volume to Reach Land (g)	Estimated Total spill volume Recovered (b+d+f+h)	Estimated Total spill volume (a+c+e+g)
1	0	0	1

*** 3 - Did the spill discharge to a drainage channel and/or surface water?** Yes

*** 4 - Did the spill reach a storm drainpipe that is not part of a combined sewer system?** No

*** 5 - If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?** Not Applicable - Spill did not reach a separate storm drainpipe

Physical Location Details

*** 6 - Spill location name:** Test

*** 7 - Latitude of spill location:** 38 **deg.** 34 **min.** 54.372 **sec. OR** 38.58177 **decimal degrees** [Map]

*** 8 - Longitude of spill location:** -121 **deg.** 30 **min.** 28.512 **sec. OR** -121.49208 **decimal degrees** [Map]

*** 9 - County:** Sacramento

*** 10 - Regional Water Quality Control Board:** Region 5S - Sacramento

11 - Spill location description:
(Use attachment if location description is more than 2000 charaters)

Spill Details

*12 - Number Of appearance points:

*13 - Spill appearance point:
(Hold Ctrl key to Select Multiple answers from the list)
Combined Sewer D.I. (Combined CS Only)
Force Main
Gravity Mainline

*14 - Spill appearance point explanation:
(Required if spill appearance point is "Other" and/or multiple appearance points are selected)

**15 - Final spill destination:
(Hold Ctrl key to Select Multiple answers from the list)
Beach
Building or Structure
Combined Storm Drain (Combined CS only)

16 - Explanation of final spill destination:
(Required if final spill destination is "Other")

*17 - Estimated spill start date/time: 00 : 00 Date Format: **MM/DD/YYYY**

*18 - Date and time sanitary sewer system agency was notified of or discovered spill: 00 : 00 Date Format: **MM/DD/YYYY**

*19 - Estimated Operator arrival date/time: 00 : 00 Date Format: **MM/DD/YYYY**

20 - Estimated spill end date/time: 00 : 00 Date Format: **MM/DD/YYYY

**21 - Spill cause:

22 - Spill cause explanation:
(Required if spill Cause is "Other")

**23 - Where did failure occur?

24 - Explanation of Where Failure Occurred:
(Required if Where Failure Occurred is "Other")

**25 - Was this spill associated with a storm event?

26 - Diameter of sewer pipe at the point of blockage or failure: inches

27 - Material of sewer pipe at the point of blockage or failure:

28 - Estimated age of sewer asset at the point of blockage or failure:

** 29 - Spill response activities:
(Hold Ctrl key to Select Multiple answers from the list)
Cleaned-Up
Mitigated Effects of Spill
Contained all or portion of spill

30 - Explanation of spill response activities:
(Required if spill response activities is "Other", use attachment if the text is more than 1700 characters)

** 31 - Spill response completion date: 00 : 00 Date Format: **MM/DD/YYYY**

** 32 - Spill corrective action taken:
(Hold Ctrl key to Select Multiple answers from the list)
Added sewer to preventive maintenance program
Adjusted schedule/method of preventive maintenance
Enforcement action against FOG source

33 - Explanation of spill corrective action taken:
(Required if spill corrective action is "Other")

** 34a - Is there an ongoing investigation?

34b - Reason for ongoing investigation?

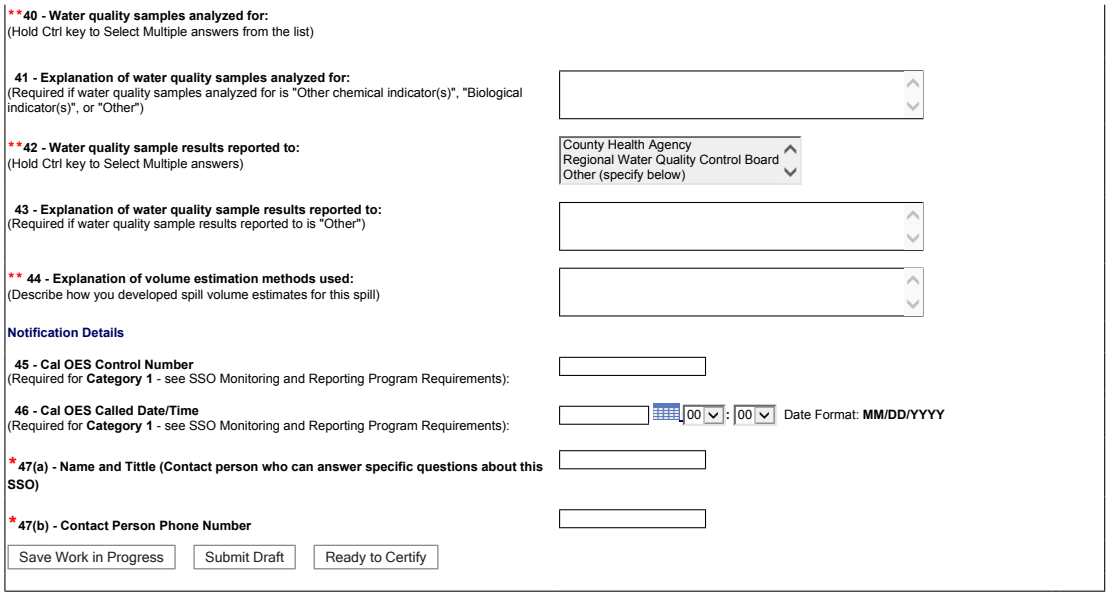
35 - Visual inspection results from impacted receiving water:

**36 - Health warnings posted?

**37 - Did the spill result in a beach closure (If YES, answer questions 38)?

**38 - Name of impacted beach(es) (enter NA if None):

39 - Name of impacted surface water(s) (enter Un-named Tributary to XXXXX where XXXXX is the name of first named downstream tributary if receiving surface water body is un-named):



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6.3 SSO CATEGORY 2

CIWQS

Menu | Help | Log out

Navigate to:

You are logged-in as: SSO Demo. If this account does not belong to you, please log out.

Spill - General Information ? SSO Menu

Spill Event ID:	New	**Regional Water Board:**	Region 5S - Sacramento
Spill Location Name:	Test	**Agency:**	State Water Resources Control Board
WDID:	5SSO10000	**Sanitary Sewer System:**	Demo South CS

General Info | Spill Related Parties | Attachments

Spill - General Information, Screen 2

Save Work in Progress | Submit Draft | Ready to Certify

You have 59:57 *minutes to save your report before your session expires.*

Note: Questions with "" are required to be answered for 'Save Work in Progress'.*
Questions with "" are required to be answered for 'Submit Draft'.*
*Questions with "***" are required to be answered for 'Ready to Certify'.*

Submit Draft On:

Last Updated By: SSO Demo

1 - Spill Type: Category 2

***2 - Estimate Spill Volumes**

a) Estimated spill volume that reached a separate storm drain that flows to a surface water body?	0 gallons
b) Estimated spill volume recovered from the separate storm drain that flows to a surface water body? (Do not include water used for clean-up)	0 gallons
c) Estimated spill volume that reached a drainage channel that flows to a surface water body?	0 gallons
d) Estimated spill volume recovered from a drainage channel that flows to a surface water body?	0 gallons
e) Estimated spill volume discharged directly to a surface water body?	0 gallons
f) Estimated spill volume recovered from surface water body?	0 gallons
g) Estimated spill volume discharged to land? (Includes discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location.)	1000 gallons
h) Estimated spill volume recovered from the discharge to land? (Do not include water used for clean-up)	0 gallons

Estimated Total spill volume to Reach Surface Water (a-b+c+e)	Estimated Total spill volume to Reach Land (g)	Estimated Total spill volume Recovered (b+d+f+h)	Estimated Total spill volume (a+c+e+g)
0	1000	0	1000

***3 - Did the spill discharge to a drainage channel and/or surface water?** No

***4 - Did the spill reach a storm drainpipe that is not part of a combined sewer system?** No

***5 - If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?** Not Applicable - Spill did not reach a separate storm drainpipe

Physical Location Details

***6 - Spill location name:** Test

***7 - Latitude of spill location:** 38 **deg.** 34 **min.** 54.372 **sec. OR** 38.58177 **decimal degrees** [Map]

***8 - Longitude of spill location:** -121 **deg.** 30 **min.** 28.512 **sec. OR** -121.49208 **decimal degrees** [Map]

***9 - County:** Sacramento

***10 - Regional Water Quality Control Board:** Region 5S - Sacramento

11 - Spill location description:
(Use attachment if location description is more than 2000 charaters)

Spill Details

*12 - Number Of appearance points:

*13 - Spill appearance point:
(Hold Ctrl key to Select Multiple answers from the list)
Combined Sewer D.I. (Combined CS Only)
Force Main
Gravity Mainline

*14 - Spill appearance point explanation:
(Required if spill appearance point is "Other" and/or multiple appearance points are selected)

**15 - Final spill destination:
(Hold Ctrl key to Select Multiple answers from the list)
Beach
Building or Structure
Combined Storm Drain (Combined CS only)

16 - Explanation of final spill destination:
(Required if final spill destination is "Other")

*17 - Estimated spill start date/time: 00 : 00 Date Format: **MM/DD/YYYY**

*18 - Date and time sanitary sewer system agency was notified of or discovered spill: 00 : 00 Date Format: **MM/DD/YYYY**

*19 - Estimated Operator arrival date/time: 00 : 00 Date Format: **MM/DD/YYYY**

20 - Estimated spill end date/time: 00 : 00 Date Format: **MM/DD/YYYY

**21 - Spill cause:

22 - Spill cause explanation:
(Required if spill Cause is "Other")

**23 - Where did failure occur?

24 - Explanation of Where Failure Occurred:
(Required if Where Failure Occurred is "Other")

**25 - Was this spill associated with a storm event?

26 - Diameter of sewer pipe at the point of blockage or failure: inches

27 - Material of sewer pipe at the point of blockage or failure:

28 - Estimated age of sewer asset at the point of blockage or failure:

** 29 - Spill response activities:
(Hold Ctrl key to Select Multiple answers from the list)
Cleaned-Up
Mitigated Effects of Spill
Contained all or portion of spill

30 - Explanation of spill response activities:
(Required if spill response activities is "Other", use attachment if the text is more than 1700 characters)

** 31 - Spill response completion date: 00 : 00 Date Format: **MM/DD/YYYY**

** 32 - Spill corrective action taken:
(Hold Ctrl key to Select Multiple answers from the list)
Added sewer to preventive maintenance program
Adjusted schedule/method of preventive maintenance
Enforcement action against FOG source

33 - Explanation of spill corrective action taken:
(Required if spill corrective action is "Other")

** 34a - Is there an ongoing investigation?

35 - Explanation of volume estimation methods used:
(Describe how you developed spill volume estimates for this spill)

*36(a) - Name and Tittle (Contact person who can answer specific questions about this SSO)

*36(b) - Contact Person Phone Number

Save Work in Progress | Submit Draft | Ready to Certify

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6.4 SSO CATEGORY 3



CIWQS

Menu | Help | Log out

Navigate to:

You are logged-in as: SSO Demo. If this account does not belong to you, please log out.

Spill - General Information ? SSO Menu

Spill Event ID:	New	**Regional Water Board:**	Region 5S - Sacramento
Spill Location Name:	Test	**Agency:**	State Water Resources Control Board
WDID:	5SSO10000	**Sanitary Sewer System:**	Demo South CS

General Info | Spill Related Parties | Attachments

Spill - General Information, Screen 2

Save Work in Progress | Submit Draft | Ready to Certify

You have 59:49 *minutes to save your report before your session expires.*

Note: Questions with "" are required to be answered for 'Save Work in Progress'.*
Questions with "" are required to be answered for 'Submit Draft'.*
*Questions with "***" are required to be answered for 'Ready to Certify'.*

Submit Draft On:

Last Updated By: SSO Demo

1 - Spill Type: Category 3

***2 - Estimate Spill Volumes**

a) Estimated spill volume that reached a separate storm drain that flows to a surface water body?	0 gallons
b) Estimated spill volume recovered from the separate storm drain that flows to a surface water body? (Do not include water used for clean-up)	0 gallons
c) Estimated spill volume that reached a drainage channel that flows to a surface water body?	0 gallons
d) Estimated spill volume recovered from a drainage channel that flows to a surface water body?	0 gallons
e) Estimated spill volume discharged directly to a surface water body?	0 gallons
f) Estimated spill volume recovered from surface water body?	0 gallons
g) Estimated spill volume discharged to land? (Includes discharges directly to land, and discharges to a storm drain system or drainage channel that flows to a storm water infiltration/retention structure, field, or other non-surface water location.)	1 gallons
h) Estimated spill volume recovered from the discharge to land? (Do not include water used for clean-up)	0 gallons

Estimated Total spill volume to Reach Surface Water (a-b+c+e)	Estimated Total spill volume to Reach Land (g)	Estimated Total spill volume Recovered (b+d+f+h)	Estimated Total spill volume (a+c+e+g)
0	1	0	1

***3 - Did the spill discharge to a drainage channel and/or surface water?** No

***4 - Did the spill reach a storm drainpipe that is not part of a combined sewer system?** No

***5 - If spill reached a separate storm drainpipe, was all of the wastewater fully captured from the separate storm drain and returned to the sanitary sewer system?** Not Applicable - Spill did not reach a separate storm drainpipe

Physical Location Details

***6 - Spill location name:** Test

***7 - Latitude of spill location:** 38 **deg.** 34 **min.** 54.372 **sec. OR** 38.58177 **decimal degrees** [Map]

***8 - Longitude of spill location:** -121 **deg.** 30 **min.** 28.512 **sec. OR** -121.49208 **decimal degrees** [Map]

***9 - County:** Sacramento

***10 - Regional Water Quality Control Board:** Region 5S - Sacramento

11 - Spill location description:
(Use attachment if location description is more than 2000 charaters)

Spill Details

*12 - Number Of appearance points:

*13 - Spill appearance point:
(Hold Ctrl key to Select Multiple answers from the list)
Combined Sewer D.I. (Combined CS Only)
Force Main
Gravity Mainline

*14 - Spill appearance point explanation:
(Required if spill appearance point is "Other" and/or multiple appearance points are selected)

**15 - Final spill destination:
(Hold Ctrl key to Select Multiple answers from the list)
Beach
Building or Structure
Combined Storm Drain (Combined CS only)

16 - Explanation of final spill destination:
(Required if final spill destination is "Other")

*17 - Estimated spill start date/time: 00 : 00 Date Format: **MM/DD/YYYY**

*18 - Date and time sanitary sewer system agency was notified of or discovered spill: 00 : 00 Date Format: **MM/DD/YYYY**

*19 - Estimated Operator arrival date/time: 00 : 00 Date Format: **MM/DD/YYYY**

20 - Estimated spill end date/time: 00 : 00 Date Format: **MM/DD/YYYY

**21 - Spill cause:

22 - Spill cause explanation:
(Required if spill Cause is "Other")

**23 - Where did failure occur?

24 - Explanation of Where Failure Occurred:
(Required if Where Failure Occurred is "Other")

**25 - Was this spill associated with a storm event?

26 - Diameter of sewer pipe at the point of blockage or failure: inches

27 - Material of sewer pipe at the point of blockage or failure:

28 - Estimated age of sewer asset at the point of blockage or failure:

29 - Explanation of volume estimation methods used:
(Describe how you developed spill volume estimates for this spill)

*30(a) - Name and Tittle (Contact person who can answer specific questions about this SSO)

*30(b) - Contact Person Phone Number

Save Work in Progress | Submit Draft | Ready to Certify

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6.1 NO SPILL CERTIFICATION

Menu | Help | Log out

Navigate to:

You are logged-in as: SSO Demo . If this account does not belong to you, please log out.

SSO - No Spill Certification

SSO Menu

Regional Water Board: Region 5S - Sacramento
Agency: State Water Resources Control Board
Sanitary Sewer System: Demo South CS
WDID: 5SSO10000

No Spill Certification:

I certify under penalty of law that no spills occurred for the month specified below. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalities for submitting false information, including the possibility of a fine or imprisonment, for knowing violations. Clicking the "Certify" button below indicates my certification of this report and my understanding of the above conditions.

Month/Year Without Spills:* June 2013

Certifier Name:* Test

Certifier Title:* Test

Executed On:* 07/24/2013

Executed At:* SWRCB

Certify

Previously Submitted Months with "No Spill Certification"

Confirmation Number	No Spill Certificate for the Month of	Entered Date/Time	Certified UserID	Certified Name
2362863	February 2013	2013-7-19.13.39. 26. 0	SSO Demo	d
2362859	January 2013	2013-7-17.14.51. 11. 0	SSO Demo	test
2306210	September 2011	2011-11-10.9.34. 37. 0	SSO Demo	Test
2294930	January 2011	2011-7-15.11.57. 22. 0	SSO Demo	
2253851	July 2010	2010-8-19.8.59. 38. 0	SSO Demo	
2247649	June 2010	2010-7-7.13.43. 35. 0	SSO Demo	
2239286	April 2010	2010-4-29.11.10. 18. 0	SSO Demo	
2212902	December 2009	2009-11-9.8.19. 48. 0	SSO Demo	
821795	December 2009	2009-4-9.7.47. 6. 0	SSO Demo	
2199725	August 2009	2009-8-31.7.18. 33. 0	SSO Demo	
2186309	July 2009	2009-7-13.10.4. 36. 0	SSO Demo	
2186308	July 2009	2009-7-13.9.47. 7. 0	SSO Demo	
829411	June 2009	2009-5-27.16.9. 12. 0	SSO Demo	
821794	April 2009	2009-4-9.7.42. 29. 0	SSO Demo	
826402	March 2009	2009-5-11.8.26. 15. 0	SSO Demo	
821793	March 2009	2009-4-9.7.41. 39. 0	SSO Demo	
821792	March 2009	2009-4-9.7.28. 7. 0	SSO Demo	
803308	November 2008	2008-11-12.15.7. 17. 0	SSO Demo	
803281	October 2008	2008-11-12.10.16. 34. 0	SSO Demo	
803282	October 2008	2008-11-12.10.18. 7. 0	SSO Demo	
821791	April 2008	2009-4-9.7.25. 16. 0	SSO Demo	
2182154	February 2008	2009-7-1.10.40. 39. 0	SSO Demo	
803303	January 2008	2008-11-12.14.1. 34. 0	SSO Demo	
2174848	December 2007	2009-6-22.13.7. 40. 0	SSO Demo	
2232727	January 2007	2010-3-8.11.33. 49. 0	SSO Demo	
2248328	August 2006	2010-7-12.9.40. 51. 0	SSO Demo	
491397	February 2006	2007-4-10.9.41. 34. 0	SSO Demo	

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7.0 RESOURCES

7.1 PRE-INSPECTION QUESTIONNAIRE

SEWER COLLECTION SYSTEM

PRE-INSPECTION QUESTIONNAIRE

Version 1.5

PART 1 — DESCRIPTION 3
PART 2 — INSTRUCTIONS 3
PART 3 — REQUIRED INFORMATION 3

1 DOCUMENTATION 3
2 Basic Information 4
3 ORGANIZATION 7
Local Governing Board Information 7
Sewer System Management Plan Information 8
4 SEWER SYSTEM ASSETS 8
General System Information 8
Asset Mapping 8
Sewer Service Laterals [SSSWDR, D.8, D.13(iv)] 8
Pumping Facility Assets 8
Force Main Sewer Assets 9
5 FINANCIAL INFORMATION 10
Funding Sources and Revenues [SSSWDR, D.9] 10
Operations, Maintenance and Capital Funds and Expenditures [SSSWDR, Sects. D.9] 10
6 LOCAL SEWER USE ORDINANCE [SSSWDR, D.13(iii) and/or D.13(vii)] 10
7 CAPITAL IMPROVEMENT PLAN 11
8 OPERATIONS AND MAINTENANCE PROGRAM 11
Computerized Maintenance Management System (CMMS) 11
Inspections, Operations and Management Activities 12
Fats, Oils and Grease [SSSWDR, D.13(iv) and D.13(viii)] 13
Sewer Contract Services 13
9 SSO EMERGENCY RESPONSE PROGRAM [SSSWDR, D.13(vi)] 14
10 SSO REDUCTION PERFORMANCE AND MONITORING PROGRAM [SSSWDR, D.13(ix)] 14
11 COLLECTIONS STAFFING AND TRAINING 14
12 MAJOR EQUIPMENT INVENTORY [SSSWDR, D.4, D.7, D.8, D.13(iv)] 15
13 EXTERNAL COMMUNICATIONS PROGRAM 15
14 NOTIFICATION, REPORTING AND RECORD KEEPING 15
15 SSO PREVENTION AND MITIGATION 16

16 DECLARATION 16

PART 1 — DESCRIPTION

This Sewer Collection System Pre-Inspection Questionnaire (Questionnaire) includes mandatory questions specific to the requirements in the Sanitary Sewer System Waste Discharge Requirements Water Quality Order No. 2006-0003-DWQ (hereafter SSSWDR), and its accompanying Amended Monitoring Plan Order No. 2008-0002-EXEC (hereafter Amended MRP).

All of the questions in this Questionnaire must be answered by the Enrollee (one Questionnaire for each collection system only) to demonstrate how the agency is complying with the SSSWDR and the Amended MRP. All responses provided in the Questionnaire along with the documentation required to be submitted by each Enrollee (see Part 3, Section 1) will be used by the Water Boards to prioritize inspection and enforcement activities statewide for the SSSWDR.

PART 2 — INSTRUCTIONS

1. Complete all questions in the Questionnaire.
2. Save an electronic copy of the completed Pre-Inspection Questionnaire (in MS Word), and the other documentation required for your collection system (see Part 3, Section 1). Print the last page of this Questionnaire and sign it in ink. Submit the electronic copy (e.g., CD) and the original completed last page to:

   State Water Resources Control Board
   Office of Enforcement, Special Investigations Unit
   1001 I Street, 16th Floor, Sacramento, CA 95814

PART 3 — REQUIRED INFORMATION

1 DOCUMENTATION

Please mail an electronic copy (e.g., CD) of the following documents to:

State Water Resources Control Board
Office of Enforcement, Special Investigations Unit
1001 I Street, 16th Floor, Sacramento, CA 95814

1.1 Sewer System Management Plan [(SSMP) [Sanitary Sewer System General Waste Discharge Requirements (SSSWDR), Sect. D.13] and any documents referenced within the SSMP. Also include documentation showing approval of the SSMP by your agency's local governing board (e.g., Board Resolution or other documentation).

1.2 SSMP Program Audit[1] [SSSWDR, Sect. D.13(x)], if not contained within your agency's SSMP

1.3 Sewer System Area Map [SSSWDR, Sect. D.13(iv)], if not contained within your agency's SSMP

1.4 Local Sewer Use Ordinance [SSSWDR, Sects. D.13(iii) and D.13(vi)], if not contained within your agency's SSMP

1.5 Evidence of Agency's SSO Field Response Documentation [SSSWDR, Amended MRP, B.5], if not contained within your agency's SSMP

1.6 Rehabilitation and Replacement Plan [SSSWDR, Sect. D.13(iv)(c)], if not contained within your agency's SSMP

[1] To satisfy SSSWDR, Sect. D.13(x), the SSMP Audit must occur at least every two years following the original approval date of the agency's SSMP by the local governing board. The SSMP Audit must measure the effectiveness and compliance of an Enrollee's SSMP.

1.7 Capital Improvement Plan (CIP) Schedule for System Evaluation and Capacity Assurance Plan (SECAP) [SSSWDR, Sect. D.13(viii)], if not contained within your agency's SSMP

2 Basic Information

2.1 Collection System Waste Discharge ID number (WDID) and Collection System Name: _____

2.2 Collection System Main Point(s) of Contact (name, title, address, email, and telephone number):
_____

2.3 Type of Sanitary Sewer System (select ONE of the following: Municipal, Park, School, Military, Hospital, Prison, Airport, Port, Other)

2.4 What is the population served by your agency's sanitary sewer system?

2.5 What is this fiscal year's budget for operation and maintenance sanitary sewer system facilities?

2.6 What is this fiscal year's budget for capital expenditures for sanitary sewer system facilities?

For questions 2.7 - 2.10, please identify the total number of employees (technical and mechanical) for your agency's sanitary sewer system (including pump station operations) working within the different classifications listed below.

2.7 Entry Level (Less than 2 years experience)

Number of agency employees?

2.8 Journey Level (Greater than or equal to 2 years experience)

Number of agency employees?

2.9 Supervisory Level

Number of agency employees?

2.10 Managerial Level

Number of agency employees?

For questions 2.11 – 2.14, please identify the total number of employees who hold CWEA Certification <u>for Collection System Maintenance</u> for your agency's sanitary sewer system (including pump station operations) for the various Certificates and Grades levels listed below.

2.11 Grade I

Number of certified (Grade I Collection System Maintenance) agency employees:

Number of certified (Grade I Plant Maintenance Technologist) agency employees:

2.12 Grade II

Number of certified (Grade II Collection System Maintenance) agency employees:

Number of certified (Grade II Electrical/Instrumentation Technologist) agency employees:

Number of certified (Grade II Mechanical Technologist) agency employees:

2.13 Grade III

Number of certified (Grade III Collection System Maintenance) agency employees:

Number of certified (Grade III Electrical/Instrumentation Technologist) agency employees:

Number of certified (Grade III Mechanical Technologist) agency employees:

2.14 Grade IV

Number of certified (Grade IV Collection System Maintenance) agency employees:

Number of certified (Grade IV Electrical/Instrumentation Technologist) agency employees:

Number of certified (Grade IV Mechanical Technologist) agency employees:

2.15 Estimated Size Distribution of Assets

Diameter of sewer pipe	Gravity Sewers (miles)	Force Mains (miles)
6 inches or less	[# or ENTER ZERO]	[# or ENTER ZERO]
8 inches	[# or ENTER ZERO]	[# or ENTER ZERO]
9 - 18 inches	[# or ENTER ZERO]	[# or ENTER ZERO]
19 - 36 inches	[# or ENTER ZERO]	[# or ENTER ZERO]
> 36 inches	[# or ENTER ZERO]	[# or ENTER ZERO]
Unknown Diameter	[# or ENTER ZERO]	[# or ENTER ZERO]
Totals	[# or ENTER ZERO]	[# or ENTER ZERO]

2.16 For which portion of sewer service laterals is your agency responsible?

(If None, skip question 2.17.)

2.17 Estimated total miles of sewer service laterals (upper and lower) for which your agency is responsible?

2.18 Number of sewer service lateral connections?

2.19 Estimated total miles of easements within your sanitary sewer system?

2.20 What is your total easement sewer system cleaning production in miles/year?

2.21 What is your total gravity sewer system cleaning production in miles/year?

2.22 Does your agency own any separately enrolled collection systems? [Y/N]

2.23 If yes to question 2.22, which collection system(s) does your agency own?

Collection System name(s):

Collection System WDID(s):

2.24 Which wastewater treatment plant(s) (WWTPs) ultimately receive wastewater from this collection system?

Receiving Treatment Plant name(s):

Receiving Treatment Plant WDID(s):

2.25 For question 2.24, does your agency own this/these WWTP(s)? [Y/N]

2.26 Does your collection system discharge into any other collection system(s)]? [Y/N]

2.27 If yes to question 2.26, which collection system(s) receive wastewater from this collection system?

Receiving Collection System name(s):

Receiving Collection System WDID(s):

2.28 Do any upstream collection systems greater than 25,000 gallons/day (gpd) discharge into this collection system? [Y/N]

2.29 If yes to question 2.28, which collection system(s) discharge into this collection system?

Upstream Collection System name(s):

Upstream Collection System WDID(s):

2.30 Estimated Collection System Flow Characteristics for your collection system:

Average Daily Dry Weather Flow (MGD)	**Peak Daily Wet Weather Flow (MGD)**
[# or Unknown]	[# or Unknown]
Enter description here how info. Is derived (based on EDUs measured, etc.)	Enter description here how info. Is derived (based on EDUs measured, etc.)

2.31 How many pump stations are there throughout the sewer collection system?

2.32 How many feet of above ground gravity pipelines are there throughout the sewer collection system?

2.33 How many feet of above ground pressurized pipelines are located throughout the sewer collection system?

2.34 How many air relief valves (ARVs) are located throughout the sewer collection system?

2.35 How many siphons are there throughout the sewer collection system?

2.36 Specify the percentage of piping and the number of pump stations constructed in the following table below:
(note: total percentage must equal 100%)

Age	Source of Age Info. (records, estimated, etc.)	Gravity & Pressure Sewers (%)	Pump Stations[2] 25k Gal/day & Over (number of stations)	Pump Stations[1] Under 25k Gal/day (number of stations)
2000 - Present		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
1980 - 1999		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
1960 - 1979		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
1940 - 1959		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
1920 - 1939		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
1900 - 1919		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
Before 1900		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
Unknown Age		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]
Totals		[%]	[# or ENTER ZERO]	[# or ENTER ZERO]

[1] For pump stations, flow categories are the maximum flow rate occurring over a 24-hr period based on annual operating data. Age is date asset was originally constructed.

3 ORGANIZATION

Local Governing Board Information

3.1 [SSSWDR, Sect. D.13(ii)]: Is/are your agency's Legally Responsible Official(s) and Data Submitter(s) registration information up-to-date with the State Water Board? [Y/N]

3.2 [SSSWDR, Sect. D.13(ii)]: If your local governing board has an internet website, please specify the internet address here:
_____

3.3 [SSSWDR, Sect. D.13(ii)]: Please list the names and titles of each of your agency's current governing board members:
_____

Sewer System Management Plan Information

3.4 [SSSWDR, Sect. E.]: Is your agency's SSMP available on your agency's website? [Y/N]

3.5 [SSSWDR, Sect. E.]: If yes to question 3.4, please provide the internet address here: _____

4 SEWER SYSTEM ASSETS

General System Information

4.1 [SSSWDR, Findings 2 & 3]: Please specify the basis for the population estimate in question 2.4 (e.g., official census data, estimated by agency, etc.)?

4.2 [SSSWDR, Sects. D.8, D.10]: What is the approximate size of the service area served by the sewer collection system for your agency, in square miles? [# or Unknown]

4.3 [SSSWDR, Sects. D.8, D.10]: Please describe the terrain within your agency's sewer service area (Mountainous, Hilly, Flat, Valley, etc.)?

4.4 [SSSWDR, Sects. D.8, D.10]: Please specify what percentage of the collection system's flow comes from residential, commercial, industrial, and institutional sources. [% FOR EACH or Unknown]

Asset Mapping

4.5 [SSSWDR, D.13(iv)]: Has your agency identified and mapped all the gravity sewer line segments, public access points (manholes, lamp holes, rod holes, etc.), pumping facilities, pressure pipes and valves, and stormwater-related facilities? [Y/N]

4.6 [SSSWDR, D.13(iv)]: Does your agency currently have sewer system assets mapped in a Geographic Information System (GIS)? [Y/N]

4.7 [SSSWDR, D.13(iv)]: Does your agency currently have stormwater-related facilities mapped in GIS? [Y/N]

4.8 [SSSWDR, D.8 and D.10]: What is the estimated number of gravity sewer line pipe segments located throughout the collection system? [# or Unknown]

4.9 [SSSWDR, D.13(iv)]: Does your agency have a formal review process in place to ensure that any mapping issues noted by field staff or others are addressed? [Y/N]

4.10 [SSSWDR, D.13(iv)]: Please indicate the total number of public access points (manholes, lamp holes, rod holes, etc.) located within your sewer collection system. [# or Unknown]

Sewer Service Laterals [SSSWDR, D.8, D.13(iv)]

4.11 Has your agency ever historically owned or maintained any portion of sewer service laterals? [Y/N or Unknown]

4.12 Does your agency have a voluntary sewer service lateral incentive program in place? [Y/N]

4.13 How many incoming complaints did your agency receive for privately-owned sewer service lateral problems in the previous fiscal year? [# or Unknown]

4.14 How many service calls did your agency respond to in the field for privately-owned service lateral problems in the previous fiscal year? [# or Unknown]

Pumping Facility Assets

For questions 4.15 – 4.32 refer to your pump station assets from question 2.31 (above)

4.15 [SSSWDR, D.8, D.13(iv)]: Has your agency mapped each pump station's actual GPS coordinates? [Y/N]

4.16 [SSSWDR, D.8, D.13(iv)]: Has your agency conducted a risk assessment for each asset? [Y/N]

4.17 [SSSWDR, D.8 and D.10]: How many of these assets have redundant pipelines installed? [#]

4.18 [SSSWDR, D.8 and D.10]: How many have dedicated emergency stand-by power generators located onsite? [#]

4.19 [SSSWDR, D.8 and D.10]: Has your agency developed standard and emergency operating procedures for each asset in the event of a power and/or pumping failure? [Y/N]

4.20 [SSSWDR, D.8 and D.10]: Has your agency determined the lowest hydraulic overflow point(s) and calculated the longest possible holding time(s) for each asset? [Y/N]

4.21 [SSSWDR, D.6(iii) and (vi), D.8 and D.10]: Has your agency identified critical spare parts for each asset? [Y/N]

4.22 [SSSWDR, D.6(iii) and (vi), D.8 and D.10]: For question 4.21, does your agency maintain the spare parts identified for each asset? [Y/N]

4.23 [SSSWDR, D.8 and D.10]: How many facilities are located within 100 feet of a surface water, creek or drainage channel? [#]

4.24 [SSSWDR, D.8 and D.10]: How many are located within 20 feet of a storm drain inlet? [#]

4.25 [SSSWDR, D.8 and D.10]: How many pump stations are equipped with audible and/or visual alarms located in public view to expedite notification to your agency in the event of an SSO? [#]

4.26 [SSSWDR, D.8 and D.10]: How many pump stations are equipped with an Auto Dialer Alarm System(s) for detecting pump failure and/or high wet well levels? [#]

4.27 [SSSWDR, D.8 and D.10]: How many have a supervisory, control and data acquisition system (SCADA) installed and operational? [#]

4.28 [SSSWDR, D.8 and D.10]: For question 4.27, how many can be remotely operated? [#]

4.29 [SSSWDR, D.8 and D.10]: How many pump stations display emergency notification signage, including agency contact information, in public view to expedite notification to your agency in the event of an SSO? [#]

4.30 [SSSWDR, D.8 and D.10]: Does your agency implement vandalism control efforts to discourage unauthorized access and/or vandalism to these assets? [#]

4.31 [SSSWDR, D.8 and D.10]: How many pump stations have built-in pumping bypass capability for emergency use? [#]

4.32 [SSSWDR, D.8 and D.10]: How many have electrical power connections installed to allow for the use of portable emergency generators? [#]

Force Main Sewer Assets

4.33 [SSSWDR, D.8, D.13(iv)]: How many sewer force mains are owned by your agency? [#]

4.34 [SSSWDR, D.8, D.13(iv)]: For the assets in question 4.33, has your agency conducted a risk assessment for each asset? [Y/N]

4.36 [SSSWDR, D.8 and D.10]: For the assets in question 4.33, how many have a dedicated corrosion protection system(s) installed? [#]

4.37 [SSSWDR, D.8 and D.10]: For the assets in question 4.33, what is the total number of air relief valves installed? [#]

5 FINANCIAL INFORMATION

Funding Sources and Revenues [SSSWDR, D.9]

5.1 Does your agency utilize an Enterprise Fund for services provided to the public? [Y/N]

5.2 If yes to question 5.1, what are the total estimated annual revenues generated from this fund? [#]

5.3 If yes to 5.1, what is the current fund balance? [#]

5.4 Please provide a brief description of all sewer collection system funding source(s) (e.g., user fees, annual budget allocation, property taxes, etc.).

_____

5.5 What is your agency's total number of billed sewer connections? [# OR Unknown]

5.6 What is your agency's total number of billed customers for sewer service? [# OR Unknown]

5.7 What is your agency's current average monthly household user fee for sewage collection only? [$ or Unknown]

5.8 For the answer in 5.7, what is your agency's sewer fee rate basis (e.g., measured flow, calculated flow, flat fee, etc.)

5.9 Has your local governing board approved any future sewer use fee increase(s)? [Y/N]

Operations, Maintenance and Capital Funds and Expenditures [SSSWDR, Sects. D.9]

5.10 How much did your agency spend in the last fiscal year for operations and maintenance activities (O&M) of sewer assets? [$]

5.11 How much did your agency spend in the last fiscal year on capital expenditures for sewer assets (e.g., new pipelines or equipment)? [$]

6 LOCAL SEWER USE ORDINANCE [SSSWDR, D.13(iii) and/or D.13(vii)]

6.1 Does your agency have an adopted sewer use ordinance (Ordinance)? [Y/N]

If no to question 6.1, skip to question 7.1

6.2 Specify the date of last update/change of your agency's local Ordinance approved by your agency's local governing board. [DATE]

6.3 Specify the time frequency in which the Ordinance is reviewed. [FREQ]

6.4 Does your agency have legal authority within the Ordinance to limit and enforce illicit discharges from upstream public and/or private satellite collection system(s)? [Y/N]

6.5 If no to question 6.4, does your agency have service agreements or other procedures to limit and enforce illicit discharges from upstream public and/or private satellite collection system(s)? [Y/N]

6.6 Does the Ordinance ban inflow from stormwater sources? [Y/N]

6.7 Does the Ordinance specify who owns and/or maintains the sewer service lateral from the building foundation to the property line (upper lateral portion)? [Y/N]

6.8 Does the Ordinance specify who owns and/or maintains the sewer service lateral from the property line to the sewer main line (lower lateral portion)? [Y/N]

6.9 Does the Ordinance require testing and/or inspection of the sewer service lateral upon remodeling, renovations and/or transfer of property/residence? [Y/N]

6.10 Does the Ordinance prohibit illicit discharges from service connections into the sewer? [Y/N]

6.11 Does the Ordinance require sewers and connections to be properly designed and constructed? [Y/N]

6.12 Does the Ordinance require proper maintenance, inspection and repairs of laterals? [Y/N]

6.13 Does the Ordinance limit the discharge of fats, oils and grease (FOG) and other debris that may cause blockages? [Y/N]

6.14 Does the Ordinance give your agency the authority to inspect grease producing facilities? [Y/N]

6.15 Does the Ordinance reference the Uniform Building Code? [Y/N]

6.16 Does the Ordinance reference the California Plumbing Code? [Y/N]

6.17 Does the Ordinance give your agency the authority to inspect, maintain and repair assets located within sewer easements? [Y/N]

6.18 Does the Ordinance provide your agency with the proper authority to issue notices of violation (NOVs)? [Y/N]

6.19 If yes to question 6.18, how many NOVs has your agency issued in the past 3 years? [# or Unknown]

6.20 Does the Ordinance provide your agency with the proper authority to issue enforcement penalties for violators? [Y/N]

6.21 If yes to question 6.20, how many enforcement penalties has your agency issued in the past 3 years? [# or Unknown]

6.22 Does Ordinance provide your agency with the proper authority to ban connections and/or disconnect services for violators? [Y/N]

6.23 If yes to question 6.22, how many actions has your agency undertaken in the past 3 years? [Y/N]

6.24 Does the Ordinance provide your agency with the authority to limit future development and/or building? [Y/N]

6.25 If yes to question 6.24, how many actions has your agency undertaken in the past 3 years? [# or Unknown]

7 CAPITAL IMPROVEMENT PLAN

7.1 [SSSWDR, D.9]: What is the approval date of your Sewer Capital Improvement Plan (Sewer CIP) by your agency's local governing board? [M/D/Y]

7.2 [SSSWDR, D.8 and D.13(iv)]: For question 7.1, is your Sewer CIP available on the internet for public review? [Y/N]

7.3 [SSSWDR, D.8 and D.13(iv)]: If yes to question 7.2, please specify the internet address:

_____

7.4 [SSSWDR, D.8 and D.13(iv)]: What is the projected date of your next Sewer CIP update? [M/D/Y]

8 OPERATIONS AND MAINTENANCE PROGRAM

Computerized Maintenance Management System (CMMS)

8.1 [SSSWDR, D.8 and D.13(iv)]: Does your agency use a computerized maintenance management system (CMMS) to generate work orders and track sewer maintenance, operations and management information? [Y/N]

8.2 [SSSWDR, D.7 and D.13(iv)]: If yes to question 8.1, is CMMS data used for ongoing strategies to eliminate/reduce SSOs? [Y/N]

8.3 [SSSWDR, D.7 and D.13(iv)]: If yes to question 8.1, is the CMMS data used to evaluate cleaning production rates? [Y/N]

8.4 [SSSWDR, D.7, D.13(iv) and D.13(ix)]: If yes to question 8.1, does your agency use the CMMS information to provide data for tracking system trends, problems and/or performance? [Y/N]

8.5 [SSSWDR, D.7, D.13(iv) and D.13(ix)]: If no to question 8.1, does your agency have a different method in place to provide data for tracking system trends, problems and/or performance? [Y/N]

Inspections, Operations and Management Activities

8.6 [SSSWDR, D.8, D.13(iv)]: What was your agency's total gravity sewer collection system cleaning production (hydro flushing, mechanical and hand rodding) over the past 12 months (miles per year)? [# or Unknown]

8.7 [SSSWDR, D.8, D.13(iv)]: What is your agency's total gravity sewer collection system cleaning production scheduled (hydro flushing, mechanical and hand rodding) for the next 12 months (miles per year)? [# or Unknown]

8.8 [SSSWDR, D.8, D.13(iv)]: What was your agency's total video (CCTV) Inspection production in the past 12 months (miles)? [# or Unknown]

8.9 [SSSWDR, D.8, D.13(iv)]: What is your agency's total video (CCTV) inspection production scheduled for the next 12 months (miles)? [# or Unknown]

8.10 [SSSWDR, D.8, D.13(iv)]: Does your agency have a method in use for reviewing and analyzing force main sewers and their components? [Y/N]

8.11 [SSSWDR, D.7 and D.13(iv)]: What is the total number of focused problem areas ("SSO hot spots") located throughout the collection system? [# or Unknown]

8.12 [SSSWDR, D.8 and D.10]: Does your agency have a program to inspect and maintain air relief valves (ARVs)? [Y/N/ n/a]

8.13 [SSSWDR, D.8 and D.10]: How many ARVs are not accessible for inspection/maintenance? [#/ n/a]

8.14 [SSSWDR, D.7 and D.13(iv)]: What was the total number of ARVs exercised and cleaned in past 12 months? [# or Unknown]

8.15 [SSSWDR, D.7 and D.13(iv)]: What is the total number of ARVs planned to be exercised and cleaned in the next 12 months? [# or Unknown]

8.16 [SSSWDR, D.13(iv)]: What is the total number of public access points (manholes, lamp holes, rod holes, etc.) inspected in the past 12 months? [# or Unknown]

8.17 [SSSWDR, D.13(iv)]: What is the total number of public access points (manholes, lamp holes, rod holes, etc.) scheduled to be inspected in the next 12 months? [# or Unknown]

8.18 [SSSWDR, D.13(iv)]: Does your agency visually inspect pipeline routes at least annually, and after major storms, earthquakes or other events that could damage these assets, to check for sink holes or leaks along force main(s)? [Y/N]

8.19 [SSSWDR, D.13(iv)]: How many above ground crossings (if applicable) were inspected in the past 12 months? [#, N/A or Unknown]

8.20 [SSSWDR, D.13(iv)]: How many siphons (if applicable) were inspected in the past 12 months? [#, N/A or Unknown]

8.21 [SSSWDR, D.13(iv)]: Does your agency have a process to identify areas subject to excess hydrogen sulfide corrosion? [Y or N]

8.22 [SSSWDR, D.13(iv)]: Does your agency have a formal pipe grading process in place to identify pipe discontinuities? [Y or N]

8.23 [SSSWDR, D.13(iv)]: Does your agency require video (CCTV) inspections before and after cleaning to measure the effectiveness of these activities? [#]

8.24 [SSSWDR, D.13(iv)]: Does your agency video (CCTV) inspect pipes after all SSO(s)? [Y/N]

8.25 [SSSWDR, D.13(iv)]: Does your agency conduct smoke, dye or other tests to check for illicit connections? [Y/N]

8.26 [SSSWDR, D.13(iv)]: If yes to question 8.25, how many miles of sewer system were tested in the past 12 months? [# or Unknown]

8.27 [SSSWDR, D.13(iv)]: Does your agency use video (CCTV) to monitor discharger compliance for illicit connections? [Y/N]

8.28 [SSSWDR, D.13(iv)]: If yes to question 8.27, list the total number of miles of video (CCTV) inspection conducted for this purpose in the past 12 months. [# or Unknown]

8.29 [SSSWDR, D.13(iv) and D.13(viii)]: Does your agency have formal agreements in place to increase resources through established mutual assistance agreements with other agencies/contractors for wet weather episodes or for SSO response activities? [Y/N]

8.30 [SSSWDR, D.13(iv) and D.13(viii)]: Does your agency have a program in place to identify areas with inflow and infiltration (I/I) ? [Y/N]

8.31 [SSSWDR, D.13(iv) and D.13(viii)]: If yes to question 8.30, estimate the total number of miles identified by this program. [# or Unknown]

8.32 [SSSWDR, D.13(iv)]: Does your agency have an active root control program in place? [Y/N]

8.33 [SSSWDR, D.13(iv)]: If yes to question 8.32, please list the type(s) of control efforts in place (e.g., chemical, mechanical, etc.).

8.34 [SSSWDR, D.13(iv)]: If your agency uses chemical(s) for root control, please list chemical(s) used. [N/A if no chem. root program]

Fats, Oils and Grease [SSSWDR, D.13(iv) and D.13(viii)]

8.35 Does your agency have a commercial FOG program in place? [Y/N]

8.36 If no to question 8.35, has your agency justified in its SSMP why a FOG program is not needed? [Y/N]

8.37 If yes to question 8.35, does your agency have a FOG Ordinance separate from the sewer use ordinance? [Y/N]

8.38 If yes to question 8.37, please list the FOG Ordinance citation number:

8.39 If yes to question 8.35, approximately how many food service establishments (FSEs) such as restaurants, schools, hospitals, jails, and convalescent homes are subject to FOG control. [#]

8.40 If yes to question 8.35, what is the total number of FSE permits issued for FOG control? [#]

8.41 If yes to question 8.35, what is the total number of dedicated FSE FOG inspectors? [#]

8.42 If yes to question 8.35, how many FSE FOG inspections were conducted in past 12 months? [#]

8.43 If yes to question 8.35, how many FSE FOG enforcement action(s) were initiated in the past 12 months?

8.44 If yes to question 8.35, how many FSE FOG inspections are planned for the next 12 months? [#]

8.45 Does your agency have a residential FOG program in place? [Y/N]

8.46 If yes to question 8.45, briefly describe the program: _____

_____

Sewer Contract Services

8.47 [SSSWDR, D.8 and D.13(iv)]: Does your agency retain contract service(s) for sewer collection system maintenance, operations, and/or management? [Y/N]

8.48 [SSSWDR, D.8 and D.13(iv)]: If yes to question 8.47, for services in excess of $10,000/year, please provide some basic information about these services in the table below:

Contractor Name	Description (cleaning, root control, repairs, , etc.)	Frequency of Contract	Budget (annual $)

9 SSO EMERGENCY RESPONSE PROGRAM [SSSWDR, D.13(vi)]

9.1 Does your agency's SSO Emergency Response Plan incorporate procedures for pump stations/force main sewers? [Y/N]

9.2 Does your agency have a dispatcher(s) within your agency to handle, dispatch and document incoming complaints from your sewer system customers? [Y/N]

9.3 If yes to 9.2, does your agency utilize a dispatch radio system for notifying collection crews who respond to SSOs? [Y/N]

9.4 If yes to 9.3, please list the frequency(s) in use for the dispatch radio system: _____

9.5 Does your agency have standard operating procedures (SOPs) in place to test and document, at least once per year, the performance of its after-hours emergency notification system(s)? [Y/N]

9.6 Does your agency provide and document any scenario-based SSO emergency response simulation training for collections staff at least on an annual basis to ensure staff are properly trained and prepared in the event of an SSO? [Y/N]

9.7 If yes to 9.6, does this training include practical exercises including researching SSO start times and calculating the SSO volume spilled and recovered? [Y/N]

9.8 Do your emergency operating procedures (EOPs) include requirements to determine the impact of an SSO, including accelerated or additional environmental monitoring? [Y/N]

10 SSO REDUCTION PERFORMANCE AND MONITORING PROGRAM [SSSWDR, D.13(ix)]

10.1 Does your agency have a process in place to collect data to monitor performance of its SSMP and efforts in reducing SSOs? [Y/N]

10.2 If yes to question 9.1, does your agency use the data collected to update SSMP program elements? [Y/N]

11 COLLECTIONS STAFFING AND TRAINING

11.1 [SSSWDR, D.9]: What is the total number of dedicated sewer maintenance crews in place at your agency? [#]

11.2 [SSSWDR, D.9]: For question 11.1, how many staff are typically in each maintenance crew? [#]

11.3 [SSSWDR, D.9 and D.13(iv)(d)]: Does your agency have a program in place to identify and document the core competencies/capabilities of collections staff at least on an annual basis (examples include sewer line cleaning, point repairs, video (CCTV) inspection, pump station maintenance, excavation, utility line locating, etc.)? [Y/N]

11.4 [SSSWDR, D.9]: If yes to question 11.3, does this program identify gap(s) in competencies/capabilities of collections staff? [Y/N]

11.5 [SSSWDR, E]: Does your agency require collections staff to review the SSSWDR and the agency's SSMP at least annually? [Y/N]

11.6 [SSSWDR, D.9]: Does your agency use a workforce planning/retention program to ensure adequate future collections staff? [Y/N]

11.7 [SSSWDR, D.8 and D.13(iv) and (vi)]: Does your agency provide initial and recurrent training to appropriate staff [including outside contractor(s)] regarding your agency's SSO Emergency Response Plan and O&M programs? [Y/N]

11.8 [SSSWDR, D.8 and D.13(iv) and (vi)]: If yes to 11.7, what is the total number of individuals trained in the past 12 months. [#]

11.9 [SSSWDR, D.8 and D.13(iv) and(vi)]: For contracted sewer services, do your contracting specifications contain specific language requiring initial and recurrent training of contractor staff regarding your agency's SSO Emergency Response Plan and O&M programs? [Y/N]

12 MAJOR EQUIPMENT INVENTORY [SSSWDR, D.4, D.7, D.8, D.13(iv)]

12.1 How many combination truck(s) (hydro flush/vacuum models) are owned and/or leased by your agency? [#]

12.2 For question 12.1, how many have a dedicated logbook(s) to document fieldwork activities? [#]

12.3 How many hydro flusher(s) are owned and/or leased by your agency? [#]

12.4 How many mechanical rodder(s) are owned and/or leased by your agency? [#]

12.5 How many video (CCTV) inspection vehicle(s) are owned and/or leased by your agency? [#]

12.6 How many utility truck(s) are owned and/or leased by your agency? [#]

12.7 How many portable sewage pump(s) are owned and/or leased by your agency? [#]

12.8 How many portable generator(s) are owned and/or leased by your agency? [#]

12.9 Does your agency own equipment designed to block the storm drain system, in an emergency, to prevent untreated or partially treated wastewater from reaching surface waters? [Y/N]

13 EXTERNAL COMMUNICATIONS PROGRAM

13.1 [SSSWDR, D.13(xi)]: Does your agency have a program in place for communicating on a regular basis with the public regarding the development, implementation, and performance of its SSMP?

13.2 [SSSWDR, D.13(xi)]: Does your agency have a program in place for communicating with upstream or downstream satellite sewer system(s) connected to its collection system? [Y/N or N/A]

13.3 [SSSWDR, D.11]: Does your agency participate in responding to Underground Service Alert(s) (USA) or other similar organizations to identify and mark sewer lines? [Y/N]

13.4 [SSSWDR, D.7, D.13(iv), G, and Amended MRP]: Does your agency's communication program give the public the opportunity to provide input as your SSMP is being implemented? [Y/N]

14 NOTIFICATION, REPORTING AND RECORD KEEPING

14.1 [SSSWDR, Amended MRP B(5)]: Are all the records required in the Amended MRP, B(5) ("Record Keeping") readily available for review by the Water Boards? [Y/N]

14.2 [SSSWDR, Amended MRP, B(5)]: Does your agency maintain a list and description of all sewer-related complaints from customers for the past 5 years, including calls received after normal working hours? [Y/N]

14.3 [SSSWDR, Amended MRP, B(5)]: If yes to question 14.2, does this include information for privately owned sewer laterals? [Y/N]

14.4 [SSSWDR, G, and Amended MRP]: Does your agency have a quality assurance/quality control (QA/QC) procedure in place for review of technical information collected by field staff prior to certification of the SSO report(s) in the Water Board's online reporting system (CIWQS) by the Legally Responsible Official(s)? [Y/N]

14.5 [SSSWDR, G and Amended MRP]: Does your agency require crews to take photos of <u>all</u> SSOs? [Y/N]

14.6 [SSSWDR, G and Amended MRP]: If no to question 14.5, does your agency at least require crews to take photos of SSOs that result in backups into structures? [Y/N]

14.7 [SSSWDR, G and Amended MRP]: Does your agency have a procedure(s) in place for collecting field information to assist in determining the actual SSO start time? [Y/N]

14.8 [SSSWDR, G and Amended MRP]: Does your agency use SOPs to estimate SSO volume spilled, recovered and not recovered, including estimation of cleanup water used? [Y/N]

14.9 [SSSWDR, G and Amended MRP]: Does your agency regularly update initial reports given to the California Emergency Management Agency, local health department, and Regional Board as information develops regarding SSOs requiring notification? [Y/N]

14.10 [Amended MRP, B.6]: Does your agency maintain water quality monitoring records as required by the Amended MRP, section B(6)?

15 SSO PREVENTION AND MITIGATION

15.1 [SSSWDR, D.13(ix)]: Does your agency generate SSO reduction performance metric(s) for its collection system for use in future planning? [Y/N]

15.2 [SSSWDR, D.13(ix)]: Does your agency have a program in place to conduct periodic video (CCTV) inspections of areas throughout the collection system that have never been evaluated by video (CCTV) to date? [Y/N or N/A]

15.3 [SSSWDR, D.13(ix)]: Does your agency document meetings between O&M and source control staff, if applicable? [Y/N or N/A]

15.4 [SSSWDR, 8 and D.6]: Does your agency document meetings between O&M and engineering staff to discuss system problem areas and projects, if applicable? [Y/N or N/A]

15.5 [SSSWDR, 8 and D.6]: Does your agency hold post-SSO briefings with collections staff, management and others involved, to evaluate root cause of SSOs and document service changes necessary to be prepared in responding to SSOs in the future? [Y/N]

15.6 [SSSWDR, 8 and D.6]: Does your agency pursue investigation of upstream satellite(s) or potential illicit dischargers as part of the SSO cause determination process? [Y/N]

15.7 [SSSWDR, 8 and D.6]: Does your agency adjust sewer collection system cleaning interval(s) for problem areas based on review and analysis of each past SSO? [Y/N]

15.8 [SSSWDR, 8 and D.6]: How many of the SSOs over the past 12 months were preventable through more proactive maintenance? [# OR Unknown]

15.9 [SSSWDR, 8 and D.6]: How many of the SSOs over the past 4 years occurred at repeat locations? [# OR Unknown]

15 DECLARATION

INSTRUCTIONS: Please print this page, sign it, and mail the original of this page to:

State Water Resources Control Board
Office of Enforcement, Special Investigations Unit
1001 I Street, 16th Floor, Sacramento, CA 95814

I, _____, the approved Legally Responsible Official (LRO) of collection system (name and Waste Discharge ID#) _____ certify under penalty of law that based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information in this Pre-Inspection Questionnaire (Version 1.0) is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine or imprisonment, for knowing violations.

_____ _____

Legally Responsible Official Signature **Date**

7.2 INTERNAL SELF-AUDITS

California
Water Boards
Protecting California's Water

Sewer System Management Plan
SELF AUDITS

Jim Fischer, P.E.
Julie Berrey
State Water Resources Control Board
Office of Enforcement

Bay Area Clean Water Agencies (December 8, 2011)

1. Review of SSMP Self Audit requirements
2. How SSMP Self Audits are used by Water Boards
3. Response to noncompliance
4. Summary of what we've seen so far
5. Sample SSMP Audits
6. Changes to Audit requirements being considered
7. Contact Information

1. Review of Audit Requirements

1. Review of Audit Requirements, cont.

WHY discharger must do SSMP Self Audit:

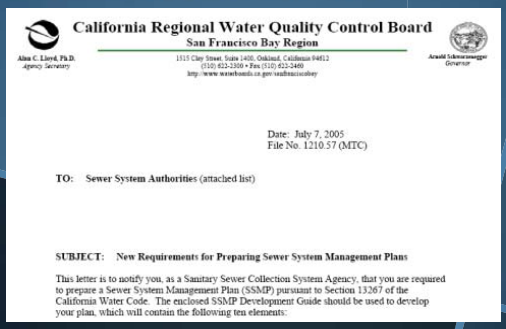
1. San Francisco Regional Water Board (Region 2) letter issued 5/7/2005 requires it annually for collection systems >10,000 population in Region 2
2. Statewide General WDR issued 5/2/2006 requires it at a minimum every 2 years (post-SSMP adoption) for all systems (not just those in Region 2)

1.a. Region 2 Requirements

5

1.a. Review of Audit Requirements, cont.

Annual SSMP Audit required for systems serving population >10,000 (since 5/7/2005)



California Regional Water Quality Control Board
San Francisco Bay Region

Alan C. Lloyd, Ph.D.
Agency Secretary

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

Arnold Schwarzenegger
Governor

Date: July 7, 2005
File No. 1210.57 (MTC)

TO: Sewer System Authorities (attached list)

SUBJECT: New Requirements for Preparing Sewer System Management Plans

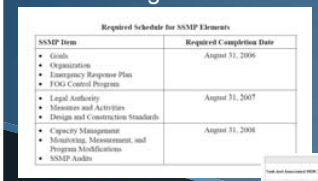
This letter is to notify you, as a Sanitary Sewer Collection System Agency, that you are required to prepare a Sewer System Management Plan (SSMP) pursuant to Section 13267 of the California Water Code. The enclosed SSMP Development Guide should be used to develop your plan, which will contain the following ten elements:

6

1.a. Review of Audit Requirements, cont.

Region 2: Accelerated SSMP timelines

Region 2



Required Schedule for SSMP Elements

SSMP Item	Required Completion Date
• Goals • Organization • Emergency Response Plan • FOG Control Program	August 31, 2006
• Legal Authority • Measures and Activities • Design and Construction Standards	August 31, 2007
• Capacity Management • Monitoring, Measurement, and Program Modifications • SSMP Audits	August 31, 2008

General WDR



7

1.a. Review of Requirements, cont.

Region 2: Developed SSMP Audit Guidelines

- "SSMP Development Guide" issued in July 2005
- Developed jointly by Region 2 and Bay Area Clean Water Agencies (BACWA)
- Guidelines only; no approved Audit format developed



SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD
in cooperation with
BAY AREA CLEAN WATER AGENCIES

Sewer System Management Plan (SSMP)
Development Guide

8

1.a. Review of Requirements, cont.

Region 2 "SSMP Development Guide" contents

10. SSMP Audits

Requirement: Each wastewater collection system agency shall conduct an annual audit of their SSMP which includes any deficiencies and steps to correct them (if applicable), appropriate to the size of the system and the number of overflows, and submit a report of such audit.

This section can be waived for collection systems serving a population of 10,000 or less.

9

1.a. Review of Requirements, cont.

Region 2 "SSMP Development Guide" contents, cont.

Key Point

The audit should cover the most recent calendar year, and be submitted to the Regional Water Board by March 15 of the year following the calendar year for which the analysis applies.

10

1.a. Review of Requirements, cont.

Region 2 "SSMP Development Guide" contents, cont.

Helpful Information

The audit can contain information about successes in implementing the most recent version of the SSMP, and identify revisions that may be needed for a more effective program. Information collected as part of Section 9 above can be used in preparing the audit. Tables and figures or

11

1.a. Review of Requirements, cont.

Region 2 "SSMP Development Guide" contents, cont.

charts can be used to summarize information about these indicators. An explanation of the SSMP development, and accomplishments in improving the sewer system, should be included in the audit, including:

- Progress made on development of SSMP elements, and if the sewer system agency is on schedule in development of the SSMP. Provide justification on the delay if the sewer system agency is behind schedule on development of the SSMP;
- How the sewer system agency implemented SSMP elements in the past year;
- The effectiveness of implementing SSMP elements;
- A description of the additions and improvements made to the sanitary sewer collection system in the past reporting year; and
- A description of the additions and improvements planned for the upcoming reporting year with an estimated schedule for implementation.

1.a. Review of Requirements, cont.

Region 2 "SSMP Development Guide" contents, cont.

Additional Tips

Helpful Information

- You may want to include a section up front entitled "System Overview," which describes the size and physical features of the system, to put the rest of the document into context.
- When you prepare the SSMP for the first time, you may want to include a "Sewer Overflow History" to give you a place to start from in evaluating any trends for SSOs in the future.

13

1.b. General WDR Requirements

14

1.b. Review of Audit Requirements, cont.

General WDR, section D.13(x):

- ✓ Essentially mirrors RB2 SSMP Audit requirements
- ✓ Only required min. of every 2 years following initial SSMP adoption date

15

1.b. Review of Audit Requirements, cont.

frequency, location, and volume.

(x) **SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the

State Water Resources Control Board Order No. 2006-0003-DWQ *Page 15 of 20*
Statewide General WDR For Wastewater Collection Agencies *5/2/06*

Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

16

1.b. Review of Audit Requirements, cont.

General WDR, section D.13(x):

> *"…audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them."*

17

1.b. Review of Audit Requirements, cont.

Minimum Audit Contents per General WDR:

1. **Narrative of SSMP Effectiveness**
   - Documents things working well
   - Documents areas needing improvement
   - Lists strategies to reduce/eliminate SSOs/impacts
2. **Demonstration of agency's compliance with ALL applicable SSMP requirements**
   - Validates status of SSMP compliance with D.13

18

1.b. Review of Requirements, cont.

General WDR, section D.13(x) also says Audit are *"appropriate to the size of the system and number of SSOs."*

- Larger systems with HIGH number/volume of SSOs:
  - MORE in-depth discussion expected about problems and planned improvements/solutions
- Smaller systems with LOW number/volume SSOs:
  - LESS in-depth discussion expected about problems and planned improvements/solutions

19

2. How SSMP Self Audits are used by the Water Boards

20

2. How SSMP Audits are Used, cont.

1. Provides tool for checking adequacy of: 1) system operations/management; 2) compliance performance; and, 3) level of effort/professionalism in reducing SSOs
2. Assists with statewide inspection/enforcement prioritization
3. Improves efficiency of Water Board/contractor inspections
4. Provides data to justify CIWQS data submitted
5. Improves Waterboard knowledge for regulatory purposes

21

3. Response to Noncompliance

22

3. Response to Noncompliance, cont.

✓ **What if discharger found to be in violation of SSMP Self Audit Requirement?**

- Must provide information to address violation
- May be issued Notice of Violation (NOV)
- May be issued 13267 Order
- May be subject to inspection/investigation
- May be subject to formal enforcement (ACL, etc.)

23

4. Summary of What We've Seen so Far

24

4. Summary of What We've Seen, cont.

✓ **October 2011 Statewide SSMP Audit Request:**

- 42 systems statewide (population 40-50K)
- 2-year SSMP self Audit requested
- System Evaluation and Capacity Assurance Plan (SECAP) also requested

25

4. Summary of What We've Seen, cont.

✓ **RESULTS: Most systems not complying with D.13(x)**

- Many missed evaluation of SSMP effectiveness
- Some missed SSMP compliance evaluation
- Some failed to submit any information or missed deadline

26

5. Sample SSMP Audits

27

5. Sample SSMP Audits, cont.

1. **City of Woodland, CA**
   - \+ Measures SSMP effectiveness
   - \- Does not completely evaluate SSMP compliance with section D.13
2. **Union Sanitary District (Union City, CA)**
   - \+ Measures SSMP effectiveness
   - \- Does not completely evaluate SSMP compliance with D.13
3. **City of La Mesa, CA**
   - \+ Evaluates SSMP compliance with D.13
   - \- Does not completely measure SSMP effectiveness

28

5. Sample SSMP Audits, cont.

4. Discharger "1" (uses BACWA SSMP checklist)
   + Evaluates SSMP element compliance with D.13
   - Does not completely measure SSMP effectiveness
5. Discharger "2" (generic audit)
   - Does not measure SSMP effectiveness
   - Does not evaluate SSMP compliance

29

5. Sample SSMP Audits, cont.

Example #1:

City of Woodland

+ Measures SSMP effectiveness
- Does not completely evaluate SSMP compliance with section D.13 in General WDR

✓ Presents improvements needed to SSMP and to system operations to reduce SSOs/impacts

Objectives

This memorandum summarizes the performance of the City of Woodland's Sewer System Management Plan (SSMP) for FY09/10 and 10/11. The purpose of the SSMP is to provide a written framework for the management, operation, and maintenance programs executed by the City, with the ultimate goal of maintaining the level of service of the sewer collection system while minimizing sanitary sewer overflows (SSOs). This review is completed as part of the annual audit process described in sections ix and x of the City's SSMP. This process helps the SSMP document to evolve over time to address identified deficiencies in the management, operation and maintenance of the sewer collection system. This memorandum summarizes the following information:

1. SSO history, describing the number and nature of SSOs over the past six years.
2. Summary of progress of further development of the SSMP elements which have a plan and schedule for full implementation.
3. Summary How SSMP elements were implemented over last year
4. Effectiveness of the implemented SSMP elements
5. What SSMP elements are planned to be implemented next year
6. Description of additions and improvements to the collection system over the last year
7. Description of the additions and improvements to the collection system planned for the upcoming year
8. Review of performance indicators and overall summary of the past two fiscal years with proposed modifications for implementation in fiscal year 11/12 in areas in need of improvement.

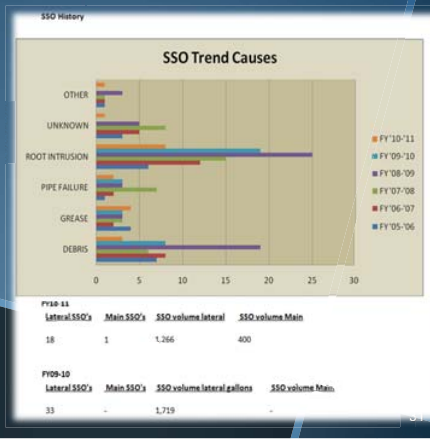
30

5. Sample SSMP Audits, cont.

Example #1, cont.:

City of Woodland

SSO History



FY10-11

Lateral SSO's	Main SSO's	SSO volume lateral	SSO volume Main
18	1	1,266	400

FY09-10

Lateral SSO's	Main SSO's	SSO volume lateral gallons	SSO volume Main
33	-	1,719	-

5. Sample SSMP Audits, cont.

Example #1, cont.: **City of Woodland**

✓ Example narrative explaining necessary SSMP improvements

Progress on development of SSMP elements

The SSMP audit has identified some elements that need refinement in the frequency of data collection and type of data collected for both the Utility Maintenance Workers and management staff. Some elements only need to be collected on an annual basis. Some new data needs to be collected to facilitate data collection for the SSMP and analysis of future needs. Furthermore, the communication plan for the SSMP was not completely implemented and progress of finishing implementation will happen in FY11/12. Overall, the SSMP is 90% complete.

32

5. Sample SSMP Audits, cont.

Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators used to track necessary collection system operational improvements (CCTV improvements)

	Performance Indicators	Rating			
		Below Goal	Acceptable	Good	Excellent
1	Feet inspected with CCTV / year	< 100,000	100,000-170,000	170,000-200,000	> 200,000
2	Pipe segments inspected / year	< 400	400-600	600-800	> 800
3	Footage inspected / 16 work hours	<1500	1500-1750	1750-2000	> 2000
4	% Passing quality control check	< 90%	90%	95%	98%

33

5. Sample SSMP Audits, cont.

Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators used to track necessary collection system operational improvements (CCTV improvements)

Periodic Performance Tracking

Date		Measured Value				Performance Assessment Comments
FY 10-11	Goal	1	2	3	4	2. Staffing vacancies attributed to low number of inspections 4. QA/QC field not in use because CCTV has not been implemented with CA&CIP module.
	Value	125,976	375	1,665	N/A	

Annual Performance Assessment / Recommendations for Updates

FY 10-11 Ratings:

1. Acceptable
2. Below Goal
3. Acceptable
4. Below Goal

Recommendation #1: Filling vacancies will increase the amount of pipe inspected

Recommendation #2: Filling vacancies will increase the amount of pipe inspected

Recommendation #3: Filling vacancies will increase the amount of pipe inspected

Recommendation #4: Anticipate CA&CIP linkage to CCTV module FY 11/12

34

5. Sample SSMP Audits, cont.

Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators track collection system operational improvements (SSO reduction performance)

	Performance Indicators	Rating			
		Below Goal	Acceptable	Good	Excellent
1	% captured of SSO (flat, 1-5%)	<70%	70%-80%	90-90%	90-100%
2	% captured of SSO (steep, >5%)	<30%	30-50%	50-90%	90-100%
3	Average time to investigate SSO with CCTV	>1 week	5-7 days	3-5 days	< 3 days
4	% complete on-line reporting for category 3 spills	< 70%	70-80%	80-90%	90-100%

35

5. Sample SSMP Audits, cont.

Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators track collection system operational improvements (SSO reduction performance)

Periodic Performance Tracking

Date		Measured Value				Performance Assessment Comments
FY 09-10	Goal	1	2	3	4	3. 24 out of 46 SSO were CCTV but can't capture time CCTV occurred for 22 of the work orders. 4. 10 private lateral SSO's and 5 reported on-line
	Value	99%	N/A	24/46	50%	

Annual Performance Assessment / Recommendations for Updates

FY 09-10 Ratings:

1. Excellent – generally sewer captures 100% of any spill.
2. Below Goal – Not applicable to Woodland.
3. Below Goal – 22 work orders did not specify when the CCTV occurred. CCTV is at the spill site but difficulty in capturing the time in the work orders.
4. Below Goal – Decision was made during the FY to stop reporting private lateral SSO's on-line as no other city does report private lateral SSO's

Recommendation #1: None.

Recommendation #2: Woodland is a flat area with a slope of less than 5% throughout the city, performance indicator does not apply in Woodland and should be removed.

Recommendation #3:Modify data entry in Cityworks to capture time CCTV began

Recommendation #4: Change or remove performance indicator.

36

5. Sample SSMP Audits, cont.

Example #2: Union Sanitary District

+ Measures SSMP effectiveness
- Does not completely evaluate SSMP compliance with D.13

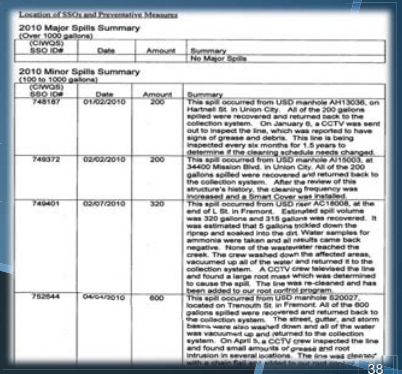
✓ Includes historic and planned activities to reduce SSOs/impacts



5. Sample SSMP Audits, cont.

Example #2, cont.: Union Sanitary District

✓ Includes detailed SSO information (SSO causes and corrective actions undertaken as a result of overflows)



Location of SSOs and Preventative Measures

2010 Major Spills Summary
(Over 1000 gallons)

(CIWQS) SSO ID#	Date	Amount	Summary
No Major Spills			

2010 Minor Spills Summary
(100 to 1000 gallons)

(CIWQS) SSO ID#	Date	Amount	Summary
748187	01/02/2010	200	This spill occurred from USD manhole AH13036, on Hartnell St. in Union City. All of the 200 gallons spilled were recovered and returned back to the collection system. On January 6, a CCTV was sent out to inspect the line, which was reported to have signs of grease and debris. This line is being inspected every six months for 1.5 years to determine if the cleaning schedule needs changed.
749372	02/02/2010	200	This spill occurred from USD manhole AI15003, at 34400 Mission Blvd. in Union City. All of the 200 gallons spilled were recovered and returned back to the collection system. After the review of this structure's history, the cleaning frequency was increased and a Smart Cover was installed.
749401	02/07/2010	320	This spill occurred from USD riser AC18008, at the end of L St. in Fremont. Estimated spill volume was 320 gallons and 315 gallons was recovered. It was estimated that 5 gallons trickled down the riprap and soaked into the dirt. Water samples for ammonia were taken and all results came back negative. None of the wastewater reached the creek. The crew washed down the affected areas, vacuumed up all of the water and returned it to the collection system. A CCTV crew televised the line and found a large root mass which was determined to cause the spill. The line was re-cleaned and has been added to our root control program.
752644	04/04/2010	600	This spill occurred from USD manhole S20027, located on Trenouth St. in Fremont. All of the 600 gallons spilled were recovered and returned back to the collection system. The street, gutter, and storm basins were also washed down and all of the water was vacuumed up and returned to the collection system. On April 5, a CCTV crew inspected the line and found small amounts of grease and root intrusion in several locations. The line was cleaned

5. Sample SSMP Audits, cont.

Example #2, cont.:

Union Sanitary District

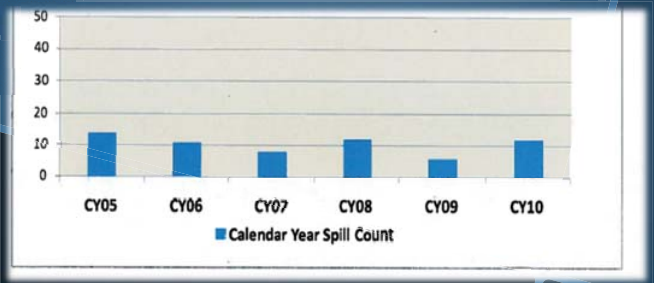
✓ Includes sewer system map showing each SSO location



5. Sample SSMP Audits, cont.

Example #2, cont.: Union Sanitary District

✓ Graphic shows historic SSO performance



5. Sample SSMP Audits, cont.

Example #2, cont.: Union Sanitary District

✓ Highlights Accomplishments

Other Information

In the calendar year 2010, we had the following accomplishments;

Progress/Accomplishments

- Completed 1,021,413 feet of cleaning and 588,948 feet of televising of sewer lines in CY2010
- Responded to 258 service request calls in CY2010
- Completed a total of 212 main repairs in CY2010
- Provided support on the following projects: Asset Hierarchy, Solar Project, Pipe Vulnerabilities, Blacow Rd, Cast Iron Pipe Lining, IT Master Plan Update, and Plant Shut Downs
- Provided input on CIWQS online SSO reporting to State Water Board
- Hosted the kick off meeting for the CIWQS Data Review Task Force (TF)
- Participated with the Summit Partners WDR TF - Discussing potential changes to the General Waste Discharge Requirements
- Preseened and handed out the new Best Practices Manual for SSO Reduction Strategies at the annual BACWA membership meeting.
- Participated in CWEA TCP update and validation TF
- Presented for CWEA Santa Clara Section – Failure Analysis/SSO Prevention Strategies
- Presented for CWEA Mid Summer Conference in Morro Bay
- Presented for CWEA at Northern Regional Training Conference in Modesto
- Presented for CWEA SF Bay Section training in Antioch
- Attended CWEA Safety Conference in Woodland
- Hosted the CWEA SF Bay Section Vendor Fair
- Attended APWA training conference
- Attended CSRMA workshop on SSOs and Flooded Buildings
- Attended the Sewer Smart Summit hosted by ABAG

41

5. Sample SSMP Audits, cont.

Example #2, cont.: Union Sanitary District

✓ Explains details about historic/future efforts

USD has an SSMP addressing all of the required elements that has been in place for six years. We use our SSMP as a tool to manage our collection system. In 2010, we updated our SSMP twice. Specifics of the changes can be made available upon request.

Twice a year we audit and update our SSMP, once at the beginning of the Fiscal Year and once at the beginning of the Calendar Year.

In 2010, CIP completed the following:

- Completed the construction of the Blacow Rd. Sewer Rehabilitation/Replacement project
- Completed the construction of the Misc. Sewer Spot Repairs - Phase I project
- Completed the construction of the Cast Iron Sewer Pipeline Rehabilitation - Phase I project
- Completed the Treatment Plant Drainage study

In 2011, CIP is expected to work on:

- The design of the I-680 Freeway Sewer Crossing replacement at Hayward Fault
- The design and construction of the SFPUC/Mission Blvd. Relocation project
- The design of the Misc. Sewer Spot Repairs - Phase III project
- The design of the Cast Iron Sewer Pipeline Rehabilitation - Phase III project
- The design of replacing the flanged coupling adapters on the force main pipelines inside the pump station valve boxes

42

5. Sample SSMP Audits, cont.

Example #2, cont.:

Union Sanitary District

✓ Shows summary chart of sewage collected and sewage spilled

✓ Shows list of efforts being undertaken to prevent SSOs

Description	Gallons	Percentage
CY10 Gallons Collected	9,415,160,000	99.9999969%
CY10 Gallons Spilled	2,084	0.0000221%
CY10 Not Recovered, That Did Not Reach State Waters	5	0.0000001%
CY10 Reached State Waters	0	0.0000000%

CY 2010 Efforts to Prevent SSOs and Minimize Their Impact Through O & M

Count	Description Of Efforts	CY09
238	Service Requests investigated	245
26	Spot Repairs completed	41
186	Trenchless Point Repairs completed	136
741	Mains Cleaned on the Selective Maintenance Program (these are lines that have had blockages in the past)	555
1,970	Mains cleaned on 72 Months Preventative Maintenance Program	2,861
896	Mains Treated for *Root Control* (these are lines that have had root caused blockages in the past or were likely to in the future)	751
18	Stoppages that did not result in a spill due to a quick response or our system design with grade breaks and relief points	17
2,265	Mains Televised to assess line condition	3,349
128	Mains had their schedule adjusted to a more frequent schedule on the	22

5. Sample SSMP Audits, cont.

Example #3

City of La Mesa

+ Evaluates SSMP compliance with D.13

- Does not completely measure SSMP effectiveness

Performance Measures	2008 Actual	2009 Actual	2010 Actual
Input			
Total number of wastewater field personnel	9	9	9
Workload/Output			
Total number of SSO responded to in 12-month period	6	7	9
Total miles of sewer line maintained	172	195	198
Lineal feet of sewer televised	27,948	13,530	25,805
Total SSO> 1,000 gallons responded to	0	0	6
Total FOG related SSOs responded to	0	0	2
Total root related SSOs responded to	3	2	1
Total SSOs due to other caused (debris, vandalism, etc)	3	5	1
Total number of capacity related SSOs	0	0	5
Total number of SSOs due to pump station malfunction	0	0	0
Number of SSOs responded to within 2 hours or less	6	6	9
Total number of SSOs not reaching storm drain system	1	4	0
Effectiveness/Outcome			
Percentage of SSOs > 1,000 gallons	0%	0%	66%
Percentage of SSOs due to FOG	0%	0%	22%
Percentage of SSOs due to roots	50%	29%	11%
Percentage of SSOs due to other causes	50%	71%	66%
Percentage of SSOs that reached waters of Unites States	83%	43%	100%
Percentage of SSOs with response time 2 hours or less	100%	86%	100%

44

5. Sample SSMP Audits, cont.

Example #3, cont.: City of La Mesa

SSMP Program Audit
City of La Mesa

Chapter 4.0: Legal Authority

The Legal Authority element includes the following subsections:

- Regulatory Requirements for Legal Authority Provisions
- Background for Legal Authority
- Summary and Evaluation of the City's Existing Legal Authority

The intent of the Legal Authority element is to provide authority for the City to administer its collection system and to provide measures to enforce codes and regulations.

Audit Questions:
Does the SSMP contain current information about the City's legal authority?
Yes ☑ No ☐

Does the City have sufficient legal authority to control sewer use and maintenance?
Yes ☑ No ☐

45

5. Sample SSMP Audits, cont.

Example #3, cont.: City of La Mesa

Discussion:
The SSMP contains a background section which discusses the regulatory authority derived from Federal and State regulations as well as a section which discusses and evaluates the City's existing legal authority. As stated in the SSMP, on April 14, 2009, the City adopted additional municipal codes to ensure the City possesses the necessary legal authority to require, implement, and enforce compliance with the SSMP elements. As elements of the SSMP evolve and are further refined, the legal authority necessary to implement the provisions and require compliance by its residents and rate payers may also be addressed. At this time, it is determined that the City has adequate legal authority to administer the collection system, and enforce codes and regulations.

Updates to This Chapter:
The City shall add the Fats, Oils, and Grease (FOG) Ordinance 2009-2794 and 2009-2795 to Appendix H of the Sewer Master Plan, which is referenced in the SSMP. The updates are included within Attachment A-1 to this document.

46

5. Sample SSMP Audits, cont.

Example #3, cont.: City of La Mesa

SSMP Program Audit
City of La Mesa

Chapter 4.0: Legal Authority

The Legal Authority element includes the following subsections:

- Regulatory Requirements for Legal Authority Provisions
- Background for Legal Authority
- Summary and Evaluation of the City's Existing Legal Authority

The intent of the Legal Authority element is to provide authority for the City to administer its collection system and to provide measures to enforce codes and regulations.

Audit Questions:
Does the SSMP contain current information about the City's legal authority?
Yes ☑ No ☐

Does the City have sufficient legal authority to control sewer use and maintenance?
Yes ☑ No ☐

47

5. Sample SSMP Audits, cont.

Example #4:

Discharger "1"

- Does not measure SSMP effectiveness
- Presents no details

Directions: Please check **YES** or **NO** for each question. If **NO** is answered for any question, describe the updates/changes needed and the timeline to complete those changes in the *"Description of Scheduled Updates/Changes to the SSMP"* section at the end of this form.

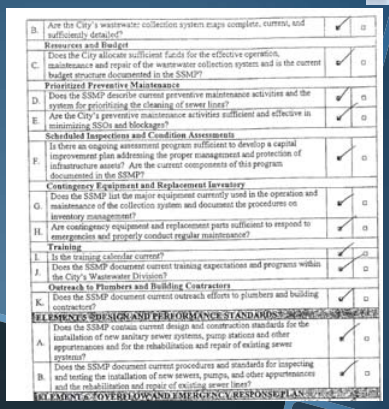
		YES	NO
ELEMENT 1: GOALS			
A.	Are the goals stated in the SSMP still appropriate and accurate	✓	☐
ELEMENT 2: ORGANIZATION			
A.	Is the Public Works Key Staff Telephone List current?	✓	☐
B.	Is the Sanitary Sewer Overflow Responder Telephone List current?	✓	☐
C.	Is the SSMP "City Organization Chart" current?	✓	☐
D.	Are the position descriptions an accurate portrayal of staff responsibilities?	✓	☐
E.	Is the SSMP "Chain of Communication for Reporting and Responding to SSOs" accurate and up-to-date?	✓	☐
ELEMENT 3: LEGAL AUTHORITY			
Does the SSMP contain excerpts from the current City Municipal Code documenting the City's legal authority to:			
A.	Prevent illicit discharges?	✓	☐
B.	Require proper design and construction of sewers and connections?	✓	☐
C.	Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the City?	✓	☐
D.	Limit discharges of fats, oils, and grease?	✓	☐
E.	Enforce any violation of its sewer ordinances?	✓	☐
ELEMENT 5: OPERATIONS AND MAINTENANCE			
	Collection System Maps		
A.	Does the SSMP reference the current process and procedures for maintaining the City's wastewater collection system maps?	✓	☐

48

5. Sample SSMP Audits, cont.

Example #4, cont.:

Discharger "1"



B.	Are the City's wastewater collection system maps complete, current, and sufficiently detailed?	✓	☐
	Resources and Budget		
C.	Does the City allocate sufficient funds for the effective operation, maintenance and repair of the wastewater collection system and is the current budget structure documented in the SSMP?	✓	☐
	Prioritized Preventive Maintenance		
D.	Does the SSMP describe current preventive maintenance activities and the system for prioritizing the cleaning of sewer lines?	✓	☐
E.	Are the City's preventive maintenance activities sufficient and effective in minimizing SSOs and blockages?	✓	☐
	Scheduled Inspections and Condition Assessments		
F.	Is there an ongoing assessment program sufficient to develop a capital improvement plan addressing the proper management and protection of infrastructure assets? Are the current components of this program documented in the SSMP?	✓	☐
	Contingency Equipment and Replacement Inventory		
G.	Does the SSMP list the major equipment currently used in the operation and maintenance of the collection system and document the procedures on inventory management?	✓	☐
H.	Are contingency equipment and replacement parts sufficient to respond to emergencies and properly conduct regular maintenance?	✓	☐
	Training		
I.	Is the training calendar current?	✓	☐
J.	Does the SSMP document current training expectations and programs within the City's Wastewater Division?	✓	☐
	Outreach to Plumbers and Building Contractors		
K.	Does the SSMP document current outreach efforts to plumbers and building contractors?	✓	☐
	ELEMENT 6: DESIGN AND PERFORMANCE STANDARDS		
A.	Does the SSMP contain current design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances and for the rehabilitation and repair of existing sewer systems?	✓	☐
B.	Does the SSMP document current procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and the rehabilitation and repair of existing sewer lines?	✓	☐
	ELEMENT 7: OVERFLOW AND EMERGENCY RESPONSE PLAN		

5. Sample SSMP Audits, cont.

Example #5: Discharger "2"

X. SSMP Program Audits

New, or different information that has been reflected in SSMP keeping the document accurate in terms of staff, and contact information, and the addition of two SSO's which have occurred since August 2009.

Organization

LRO:

Data Submitter: I

Operations staff:

Recent SSO's

February 6, 2010: (reached receiving waters)

April 4, 2010:

6. SSMP Audit changes being considered

6. SSMP Audit Changes Being Considered, cont.

1. Delete RB2 Annual SSMP Audit Requirement; revert to General WDR's 2-year time requirement
2. Possible changes being considered for inclusion in revised General WDR:
   1) Require results of D.13(ix), "Monitoring, Measurement and Program Modifications" to be included in 2-year Audit
   2) Consider 2-year Audit time clock to "reset" if SSMP is re-adopted by local governing board

6. SSMP Audit Changes Being Considered, cont.

3. Develop new Online CIWQS Form to satisfy 2-year SSMP Audit requirement.

Benefits:

- Helps discharger comply with General WDR SSMP Audit requirements
- Helps ensure statewide consistency and compliance
- Utilizes CIWQS information to auto generate audit metrics (# of SSOs, volume, causes, etc.)
- Provides platform to showcase discharger's strategic efforts, programs, strategies, and approaches to reduce/eliminate SSOs

53

Contact Information

Jim Fischer, P.E.
Special Investigations Unit
Office of Enforcement
State Water Resources Control Board
jfischer@waterboards.ca.gov
(916) 341-5548

Claudia Villacorta, P.E.
Program Manager
NPDES Enforcement Unit
San Francisco Regional Water Board
cvillacourta@waterboards.ca.gov
(510) 622-2485

Julie Berrey
Special Investigations Unit
Office of Enforcement
State Water Resources Control Board
jberrey@waterboards.ca.gov
(916) 341-5872

Michael Chee
NPDES Enforcement Unit
San Francisco Regional Water Board
mchee@waterboards.ca.gov
(510) 622-2223

54

7.3 OTHER RESOURCES

7.3.1 California Water Environment Association
(http://www.cwea.org/et_ssowdr.shtml)

7.3.2 California Rural Water Association
(http://www.calruralwater.org/)

7.3.3 Rural Community Assistance Corporation
(http://www.rcac.org/pages/81)

7.3.4 Central Valley Clean Water Association
(http://www.cvcwa.org/)

7.3.5 Bay Area Clean Water Agencies
(http://bacwa.org/

7.3.6 Southern California Alliance of Publicly Owned Treatment Works
(http://scap1.org/SitePages/Home.aspx)

7.3.7 Cal FOG
(http://www.calfog.org)

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STATE OF CALIFORNIA
DEPARTMENT OF FISH AND WILDLIFE
LAKE OR STREAMBED ALTERATION PROGRAM

Information Regarding Emergency Work

Fish and Game Code section 1610 exempts certain types of emergency work from the notification requirement in section 1602. Specifically, notification is not required before beginning any of the following emergency work:

1) immediate emergency work necessary to protect life or property;
2) immediate emergency repairs to public service facilities necessary to maintain service as a result of a disaster in an area in which the Governor has proclaimed a state of emergency; and/or
3) emergency projects undertaken, carried out, or approved by a state or local governmental agency to maintain, repair, or restore an existing highway, as defined in Vehicle Code section 360, within the existing right-of-way of the highway, that has been damaged as a result of fire, flood, storm, earthquake, land subsidence, gradual earth movement, or landslide, within one year of the damage.

Although notification is not required ***before*** beginning the emergency work, the Department must be notified in writing within 14 days ***after*** the work begins ("emergency notification"). The notification requirement can be met by completing and submitting the attached Emergency Notification form to the Department regional office that serves the county where the emergency work occurs.

If the Department does not receive the emergency notification within 14 days after the work begins, or the work did not constitute emergency work, the entity responsible for the work may be subject to criminal or civil prosecution. Hence, it is important that the work meets the definition of "emergency."

"Emergency" means "a ***sudden, unexpected*** occurrence, involving a clear and imminent danger, demanding ***immediate*** action to prevent or mitigate the loss of, or damage to, life, health, property, or essential public services. 'Emergency' includes such occurrences as fire, flood, earthquake, or other soil or geologic movements, as well as such occurrences as riot, accident, or sabotage." (Public Resources Code section 21060.3 (emphasis added)). See also Fish and Game Code section 1601, subdivision (c).

Although emergency work is exempt from the notification requirement in Fish and Game Code section 1602, the entity responsible for completing the emergency work must comply with other applicable local, state, and federal laws, including other provisions in the Fish and Game Code, such as section 5650 (prohibiting the discharge or release of deleterious substances or materials) and section 5901 (prohibiting the construction or maintenance of any device or contrivance that prevents or impedes fish passage).

The Department recommends that emergency work be conducted in accordance with the guidelines below to minimize impacts to fish and wildlife resources.

1) The person(s) completing the emergency work should prevent raw cement, concrete, or washings thereof, asphalt, paint, or other coating material, oil or other petroleum products, or any other substance which can be deleterious to aquatic life from contaminating soil and/or entering a river, stream, lake or other waters of the state. (See Fish and Game Code section 5650.)

2) The person(s) completing the emergency work should minimize the disturbance or removal of vegetation in completing the work.

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FOR DEPARTMENT USE ONLY			
Date Received		Notification Number	

STATE OF CALIFORNIA
DEPARTMENT OF FISH AND WILDLIFE

LAKE OR STREAMBED ALTERATION PROGRAM
NOTIFICATION OF EMERGENCY WORK

Complete EACH field and attach additional pages if necessary.

1. PERSON, BUSINESS, OR AGENCY RESPONSIBLE FOR EMERGENCY WORK

If the emergency work is being conducted by a business, agency, or utility, please include the name of your designated representative.			
Name			
Business/Agency			
Street Address			
City, State, Zip			
Telephone		Fax	
Email			

2. LOCATION OF EMERGENCY WORK

Address or description of project location. (*Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway.*)				
☐ *Continued on additional page(s)*				
River, stream, or lake affected by project				
What water body is the river, stream, or lake tributary to?				
Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?	☐ Yes	☐ No	☐ Unknown	
County				
USGS 7.5 Minute Quad Map Name	Township	Range	Section	Section
☐ *Continued on additional page(s)*				
Meridian (*check one*)	☐ Humboldt	☐ Mt. Diablo	☐ San Bernardino	

2. LOCATION OF EMERGENCY WORK continued

Assessor's Parcel Number(s)			
☐ *Continued on additional page(s)*			
Coordinates (*If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes.)*			
Latitude/Longitude	*Latitude:*	*Longitude:*	
	☐ Degrees/Minutes/Seconds ☐ Decimal Degrees ☐ Decimal Minutes		
UTM	*Easting:*	*Northing:*	☐ Zone 10 ☐ Zone 11
Datum used for Latitude/Longitude or UTM	☐ NAD 27 ☐ NAD 83 or WGS 84		

3. NATURE OF EMERGENCY WORK

Date emergency began or was first discovered	
Date emergency work began	
Date emergency work was or will be completed	
Briefly describe the type of emergency (e.g., flooding or earth movement).	
Identify the type of property affected by the emergency by marking the appropriate boxes below.	
☐ Bridge, culvert, or other water crossing ☐ Dwelling or other building ☐ Levee or other bank protection ☐ Road ☐ Farmland ☐ Utility ☐ Other (describe): _____	
Describe the emergency work.	
☐ Continued on additional page(s)	

3. NATURE OF EMERGENCY WORK continued

Briefly describe the dimensions (e.g., length and width) of the area or areas affected by the emergency and the work area.
☐Continued on additional page(s)
Describe any work you intend to complete after the emergency to restore the affected area.
☐ Continued on additional page(s)

4. SIGNATURE

I hereby certify that to the best of my knowledge the information in this emergency notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the person, business, or agency responsible for the emergency work. *I understand that if the Department does not receive this emergency notification within 14 days after the emergency work begins, or the work did not constitute emergency work, I and/or the person, business, or agency responsible for the emergency work may be subject to criminal or civil prosecution*.

_____ _____
Signature of Applicant or Applicant's Authorized Representative Date

_____
Print Name

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Title 14. California Code of Regulations
Chapter 3. Guidelines for Implementation of the California Environmental Quality Act

Article 18. Statutory Exemptions

Sections 15260 to 15285

15260. General

This article describes the exemptions from CEQA granted by the Legislature. The exemptions take several forms. Some exemptions are complete exemptions from CEQA. Other exemptions apply to only part of the requirements of CEQA, and still other exemptions apply only to the timing of CEQA compliance.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b), Public Resources Code.

15261. Ongoing Project

(a) If a project being carried out by a public agency was approved prior to November 23, 1970, the project shall be exempt from CEQA unless either of the following conditions exist:

(1) A substantial portion of public funds allocated for the project have not been spent, and it is still feasible to modify the project to mitigate potentially adverse environmental effects, or to choose feasible alternatives to the project, including the alternative of "no project" or halting the project; provided that a project subject to the National Environmental Policy Act (NEPA) shall be exempt from CEQA as an on-going project if, under regulations promulgated under NEPA, the project would be too far advanced as of January 1, 1970, to require preparation of an EIS.

(2) A public agency proposes to modify the project in such a way that the project might have a new significant effect on the environment.

(b) A private project shall be exempt from CEQA if the project received approval of a lease, license, certificate, permit, or other entitlement for use from a public agency prior to April 5, 1973, subject to the following provisions:

(1) CEQA does not prohibit a public agency from considering environmental factors in connection with the approval or disapproval of a project, or from imposing reasonable fees on the appropriate private person or entity for preparing an environmental report under authority other than CEQA. Local agencies may require environmental reports for projects covered by this paragraph pursuant to local ordinances during this interim period.

(2) Where a project was approved prior to December 5, 1972, and prior to that date the project was legally challenged for noncompliance with CEQA, the project shall be bound by special rules set forth in Section 21170 of CEQA.

(3) Where a private project has been granted a discretionary governmental approval for part of the project before April 5, 1973, and another or additional discretionary governmental approvals after April 5, 1973, the project shall be subject to CEQA only if the approval or approvals after April 5, 1973, involve a greater degree of responsibility or control over the project as a whole than did the approval or approvals prior to that date.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Sections 21169, 21170, and 21171, Public Resources Code; County of Inyo v. Yorty, 32 Cal. App. 3d 795.

15262. Feasibility and Planning Studies

A project involving only feasibility or planning studies for possible future actions which the agency, board, or commission has not approved, adopted, or funded does not require the preparation of an EIR or Negative Declaration but does require consideration of environmental factors. This section does not apply to the adoption of a plan that will have a legally binding effect on later activities.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Sections 21102 and 21150, Public Resources Code.

15263. Discharge Requirements

The State Water Resources Control Board and the regional boards are exempt from the requirement to prepare an EIR or a Negative Declaration prior to the adoption of waste discharge requirements, except requirements for new sources as defined in the Federal Water Pollution Control Act or in other acts which amend or supplement the Federal Water Pollution Control Act. The term "waste discharge requirements" as used in this section is the equivalent of the term "permits" as used in the Federal Water Pollution Control Act.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 13389, Water Code.

15264. Timberland Preserves

Local agencies are exempt from the requirement to prepare an EIR or Negative Declaration on the adoption of timberland preserve zones under Government Code Sections 51100 et seq. (Gov. Code, Sec. 51119).

Note: Authority cited: Section 21083, Public Resources Code; Reference: Government Code Section 51119, Government Code.

15265. Adoption of Coastal Plans and Programs

(a) CEQA does not apply to activities and approvals pursuant to the California Coastal Act (commencing with Section 30000 of the Public Resources Code) by:

(1) Any local government, as defined in Section 30109 of the Public Resources Code, necessary for the preparation and adoption of a local coastal program, or

(2) Any state university or college, as defined in Section 30119, as necessary for the preparation and adoption of a long-range land use development plan.

(b) CEQA shall apply to the certification of a local coastal program or long-range land use development plan by the California Coastal Commission.

(c) This section shifts the burden of CEQA compliance from the local agency or the state university or college to the California Coastal Commission. The Coastal Commission's program of certifying local coastal programs and long-range land use development plans has been certified under Section 21080.5, Public Resources Code. See: Section 15192.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Sections 21080.9, Public Resources Code.

15266. General Plan Time Extension

CEQA shall not apply to the granting of an extension of time by the Office of Planning and Research to a city or county for the preparation and adoption of one or more elements of a city or county general plan.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080.10(a), Public Resources Code.

15267. Financial Assistance to Low or Moderate Income Housing

CEQA does not apply to actions taken by the Department of and Community Development to provide financial assistance for the development and construction of residential housing for persons and families of low or moderate income, as defined in Section 50093 of the Health and Safety Code. The residential project which is the subject of the application for financial assistance will be subject to CEQA when approvals are granted by another agency.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080.10(b), Public Resources Code.

15268. Ministerial Projects

(a) Ministerial projects are exempt from the requirements of CEQA. The determination of what is "ministerial" can most appropriately be made by the particular public agency involved based upon its analysis of its own laws, and each public agency should make such determination either as a part of its implementing regulations or on a case-by-case basis.

(b) In the absence of any discretionary provision contained in the local ordinance or other law establishing the requirements for the permit, license, or other entitlement for use, the following actions shall be presumed to be ministerial:

(1) Issuance of building permits.

(2) Issuance of business licenses.

(3) Approval of final subdivision maps.

(4) Approval of individual utility service connections and disconnections.

(c) Each public agency should, in its implementing regulations or ordinances, provide an identification or itemization of its projects and actions which are deemed ministerial under the applicable laws and ordinances.

(d) Where a project involves an approval that contains elements of both a ministerial action and a discretionary action, the project will be deemed to be discretionary and will be subject to the requirements of CEQA.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(1), Public Resources Code; *Day v. City of Glendale*, 51 Cal. App. 3d 817.

15269. Emergency Projects

The following emergency projects are exempt from the requirements of CEQA.

(a) Projects to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster stricken area in which a state of emergency has been proclaimed by the Governor pursuant to the California Emergency Services Act, commencing with Section 8550 of the Government Code. This includes projects that will remove, destroy, or significantly alter an historical resource when that resource represents an imminent threat to the public of bodily harm or of damage to adjacent property or when the project has received a determination by the State Office of Historic Preservation pursuant to Section 5028(b) of Public Resources Code.

(b) Emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare.

(c) Specific actions necessary to prevent or mitigate an emergency. This does not include long-term projects undertaken for the purpose of preventing or mitigating a situation that has a low probability of occurrence in the short-term.

(d) Projects undertaken, carried out, or approved by a public agency to maintain, repair, or restore an existing highway damaged by fire, flood, storm, earthquake, land subsidence, gradual earth movement, or landslide, provided that the project is within the existing right of way of that highway and is initiated within one year of the damage occurring. This exemption does not apply to highways designated as official state scenic highways, nor any project undertaken, carried out, or approved by a public agency to expand or widen a highway damaged by fire, flood, storm, earthquake, land subsidence, gradual earth movement, or landslide.

(e) Seismic work on highways and bridges pursuant to Section 180.2 of the Streets and Highways Code, Section 180 et seq.

Note: Authority: Section 21083, Public Resources Code. Reference: Sections 21080(b)(2), (3), and (4), 21080.33 and 21172, Public Resources Code; *Castaic Lake Water Agency v. City of Santa Clarita* (1995) 41 Cal.App.4th 1257; and *Western Municipal Water District of Riverside County v. Superior Court of San Bernardino County* (1987) 187 Cal.App.3d 1104.

15270. Projects Which are Disapproved

(a) CEQA does not apply to projects which a public agency rejects or disapproves.

(b) This section is intended to allow an initial screening of projects on the merits for quick disapprovals prior to the initiation of the CEQA process where the agency can determine that the project cannot be approved.

(c) This section shall not relieve an applicant from paying the costs for an EIR or Negative Declaration prepared for his project prior to the Lead Agency's disapproval of the project after normal evaluation and processing.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(5), Public Resources Code.

15271. Early Activities Related to Thermal Power Plants

(a) CEQA does not apply to actions undertaken by a public agency relating to any thermal power plant site or facility including the expenditure, obligation, or encumbrance of funds by a public agency for planning, engineering, or design purposes, or for the conditional sale or purchase of equipment, fuel, water (except groundwater), steam, or power for such a thermal power plant, if the thermal power plant site and related facility will be the subject of an EIR or Negative Declaration or other document or documents prepared pursuant to a regulatory program certified pursuant to Public Resources Code Section 21080.5, which will be prepared by:

(1) The State Energy Resources Conservation and Development Commission,

(2) The Public Utilities Commission, or

(3) The city or county in which the power plant and related facility would be located.

(b) The EIR, Negative Declaration, or other document prepared for the thermal power plant site or facility, shall include the environmental impact, if any, of the early activities described in this section.

(c) This section acts to delay the timing of CEQA compliance from the early activities of a utility to the time when a regulatory agency is requested to approve the thermal power plant and shifts the responsibility for preparing the document to the regulatory agency.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 15080(b)(6), Public Resources Code.

15272. Olympic Games

CEQA does not apply to activities or approvals necessary to the bidding for, hosting or staging of, and funding or carrying out of, Olympic Games under the authority of the International Olympic Committee, except for the construction of facilities necessary for such Olympic Games. If the facilities are required by the International Olympic Committee as a condition of being awarded the Olympic Games, the Lead Agency need not discuss the "no project" alternative in an EIR with respect to those facilities.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(7), Public

Resources Code.

15273. Rates, Tolls, Fares, and Charges

(a) CEQA does not apply to the establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, or other charges by public agencies which the public agency finds are for the purpose of:

(1) Meeting operating expenses, including employee wage rates and fringe benefits,

(2) Purchasing or leasing supplies, equipment, or materials,

(3) Meeting financial reserve needs and requirements,

(4) Obtaining funds for capital projects, necessary to maintain service within existing service areas, or

(5) Obtaining funds necessary to maintain such intra-city transfers as are authorized by city charter.

(b) Rate increases to fund capital projects for the expansion of a system remain subject to CEQA. The agency granting the rate increase shall act either as the Lead Agency if no other agency has prepared environmental documents for the capital project or as a Responsible Agency if another agency has already complied with CEQA as the Lead Agency.

(c) The public agency shall incorporate written findings in the record of any proceeding in which an exemption under this section is claimed setting forth with specificity the basis for the claim of exemption.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(8), Public Resources Code.

15274. Family Day Care Homes

(a) CEQA does not apply to establishment or operation of a large family day care home, which provides in-home care for up to fourteen children, as defined in Section 1596.78 of the Health and Safety Code.

(b) Under the Health and Safety Code, local agencies cannot require use permits for the establishment or operation of a small family day care home, which provides in-home care for up to eight children, and the establishment or operation of a small family day care home is a ministerial action which is not subject to CEQA.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21083, Public Resources Code.

15275. Specified Mass Transit Projects

CEQA does not apply to the following mass transit projects:

(a) The institution or increase of passenger or commuter service on rail lines or high-occupancy vehicle lanes already in use, including the modernization of existing stations and parking facilities;

(b) Facility extensions not to exceed four miles in length which are required for transfer of passengers from or to exclusive public mass transit guideway or busway public transit services.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(11), (12), and (13), Public Resources Code.

15276. Transportation Improvement and Congestion Management Programs

(a) CEQA does not apply to the development or adoption of a regional transportation improvement program or the state transportation improvement program. Individual projects developed pursuant to these programs shall remain subject to CEQA.

(b) CEQA does not apply to preparation and adoption of a congestion management program by a county congestion management agency pursuant to Government Code Section 65089, et seq.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(13), Public Resources Code.

15277. Projects Located Outside California

CEQA does not apply to any project or portion thereof located outside of California which will be subject to environmental impact review pursuant to the National Environmental Policy Act of 1969 or pursuant to a law of that state requiring preparation of a document containing essentially the same points of analysis as in an Environmental Impact Statement prepared under the National Environmental Policy Act of 1969. Any emissions or discharges that would have a significant effect on the environment in the State of California are subject to CEQA where a California public agency has authority over the emissions or discharges.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(15), Public Resources Code; 58 Opinions of the California Attorney General 614 (S.O. 75/50).

15278. Application of Coatings

(a) CEQA does not apply to a discretionary decision by an air quality management district for a project consisting of the application of coatings within an existing facility at an automotive manufacturing plant if the district finds all of the following:

(1) The project will not cause a net increase in any emissions of any pollutant for which a national or state ambient air quality standard has been established after the internal emission accounting for previous emission reductions achieved at the facility and recognized by the district.

(2) The project will not cause a net increase in adverse impacts of toxic air contaminants as determined by a health risk assessment. The term "net increase in adverse impacts of toxic air contaminants as determined by a health risk assessment" shall be determined in accordance with the rules and regulations of the district.

(3) The project will not cause any other adverse effect on the environment.

(b) The district shall provide a 10-day notice, at the time of the issuance of the permit, of any such exemption. Notice shall be published in two newspapers of general circulation in the area of the project

and shall be mailed to any person who makes a written request for such a notice. The notice shall state that the complete file on the project and the basis for the district's findings of exemption are available for inspection and copying at the office of the district.

(c) Any person may appeal the issuance of a permit based on an exemption under subdivision (a) to the hearing board as provided in Section 42302.1 of the Health and Safety Code. The permit shall be revoked by the hearing board if there is substantial evidence in light of the whole record before the board that the project may not satisfy one or more of the criteria established pursuant to subdivision (a). If there is no such substantial evidence, the exemption shall be upheld. Any appeal under this subdivision shall be scheduled for hearing on the calendar of the hearing board within 10 working days of the appeal being filed. The hearing board shall give the appeal priority on its calendar and shall render a decision on the appeal within 21 working days of the appeal being filed. The hearing board may delegate the authority to hear and decide such an appeal to a subcommittee of its body.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Chapter 1131, Statutes of 1993, Section 1.

[15279 Removed]

[15280 Removed]

15281. Air Quality Permits

CEQA does not apply to the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V, as defined in Section 39053.3 of the Health and Safety Code, or pursuant to an air district Title V program established under Sections 42301.10, 42301.11, and 42301.12 of the Health and Safety Code, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility.

Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080.24, Public Resources Code.

15282. Other Statutory Exemptions

The following is a list of existing statutory exemptions. Each subdivision summarizes statutory exemptions found in the California Code. Lead agencies are not to rely on the language contained in the summaries below but must rely on the actual statutory language that creates the exemption. This list is intended to assist lead agencies in finding them, but not as a substitute for them. This section is merely a reference tool.

(a) The notification of discovery of Native American burial sites as set forth in Section 5097.98(c) of the Public Resources Code .

(b) Specified prison facilities as set forth in Sections 21080.01, 21080.02, 21080.03 and 21080.07 of the Public Resources Code.

(c) The lease or purchase of the rail right-of-way used for the San Francisco Peninsula commute service between San Francisco and San Jose as set forth in Section 21080.05 of the Public Resources Code.

(d) Any activity or approval necessary for or incidental to project funding or authorization for the expenditure of funds for the project, by the Rural Economic Development Infrastructure Panel as set forth in Section 21080.08 of the Public Resources Code.

(e) The conversion of an existing rental mobilehome park to a resident initiated subdivision, cooperative, or condominium for mobilehomes as set forth in Section 21080.8 of the Public Resources Code.

(f) Settlements of title and boundary problems by the State Lands Commission and to exchanges or leases in connection with those settlements as set forth in Section 21080.11 of the Public Resources Code.

(g) Any railroad grade separation project which eliminates an existing grade crossing or which reconstructs an existing grade separation as set forth in Section 21080.13 of the Public Resources Code.

(h) The adoption of an ordinance regarding second units in a single-family or multifamily residential zone by a city or county to implement the provisions of Sections 65852.1 and 65852.2 of the Government Code as set forth in Section 21080.17 of the Public Resources Code .

(i) The closing of any public school or the transfer of students from that public school to another school in which kindergarten or any grades 1 through 12 is maintained as set forth in 21080.18 of the Public Resources Code.

(j) A project for restriping streets or highways to relieve traffic congestion as set forth in Section 21080.19 of the Public Resources Code.

(k) The installation of new pipeline or maintenance, repair, restoration, removal, or demolition of an existing pipeline as set forth in Section 21080.21 of the Public Resources Code, as long as the project does not exceed one mile in length.

(l) The activities and approvals by a local government necessary for the preparation of general plan amendments pursuant to Public Resources Code §29763 as set forth in Section 21080.22 of the Public Resources Code. Section 29763 of the Public Resources Code refers to local government amendments made for consistency with the Delta Protection Commission's regional plan.

(m) Minor alterations to utilities made for the purposes of complying with Sections 116410 and 116415 of the Health and Safety Code as set forth in Section 21080.26 of the Public Resources Code.

(n) The adoption of an ordinance exempting a city or county from the provisions of the Solar Shade Control Act as set forth in Section 25985 of the Public Resources Code.

(o) The acquisition of land by the Department of Transportation if received or acquired within a statewide or regional priority corridor designated pursuant to Section 65081.3 of the Government Code as set forth in Section 33911 of the Public Resources Code .

(p) The adoption or amendment of a nondisposal facility element as set forth in Section 41735 of the Public Resources Code.

(q) Cooperative agreements for the development of Solid Waste Management Facilities on Indian country as set forth in Section 44203(g) of the Public Resources Code .

(r) Determinations made regarding a city or county's regional housing needs as set forth in Section 65584 of the Government Code.

(s) Any action necessary to bring a general plan or relevant mandatory element of the general plan into compliance pursuant to a court order as set forth in Section 65759 of the Government Code.

(t) Industrial Development Authority activities as set forth in Section 91543 of the Government Code .

(u) Temporary changes in the point of diversion, place of use, of purpose of use due to a transfer or exchange of water or water rights as set forth in Section 1729 of the Water Code.

(v) The preparation and adoption of Urban Water Management Plans pursuant to the provisions of Section 10652 of the Water Code.

Note: Authority: Section 21083, Public Resources Code; References: Sections 5097.98(c), 21080.01, 21080.02, 21080.03, 21080.05, 21080.07, 21080.08, 21080.7, 21080.8, 21080.11, 21080.13, 21080.17, 21080.18, 21080.19, 21080.21, 21080.22, 21080.26, 25985, 33911, 41735, and 44203(g), Public Resources Code.

15283. Housing Needs Allocation.

CEQA does not apply to regional housing needs determinations made by the Department of Housing and Community Development, a council of governments, or a city or county pursuant to Section 65584 of the Government Code.

Note: Authority cited: Section 21083, Public Resources Code. Reference: Section 65584, Government Code.

15284. Pipelines.

(a) CEQA does not apply to any project consisting of the inspection, maintenance, repair, restoration, reconditioning, relocation, replacement, or removal of an existing hazardous or volatile liquid pipeline or any valve, flange, meter, or other piece of equipment that is directly attached to the pipeline.

(b) To qualify for this exemption, the diameter of the affected pipeline must not be increased and the project must be located outside the boundaries of an oil refinery. The project must also meet all of the following criteria:

(1) The affected section of pipeline is less than eight miles in length and actual construction and excavation activities are not undertaken over a length of more than one-half mile at a time.

(2) The affected section of pipeline is not less than eight miles distance from any section of pipeline that had been subject to this exemption in the previous 12 months.

(3) The project is not solely for the purpose of excavating soil that is contaminated by hazardous materials.

(4) To the extent not otherwise required by law, the person undertaking the project has, in advance of undertaking the project, prepared a plan that will result in notification of the appropriate agencies so that they may take action, if necessary, to provide for the emergency evacuation of members of the public who may be located in close proximity to the project, and those agencies, including but not limited to the local fire department, police, sheriff, and California Highway Patrol as appropriate, have reviewed and agreed to that plan.

(5) Project activities take place within an existing right-of-way and that right-of-way will be restored to its pre-project condition upon completion of the project.

(6) The project applicant will comply with all conditions otherwise authorized by law, imposed by the city or county as part of any local agency permit process, and to comply with the Keene-Nejedly California Wetlands Preservation Act (Public Resources Code Section 5810, et seq.), the California Endangered Species Act (Fish and Game Code Section 2050, et seq.), other applicable state laws, and all applicable federal laws.

(c) When the lead agency determines that a project meets all of the criteria of subdivisions (a) and (b), the party undertaking the project shall do all of the following:

(1) Notify in writing all responsible and trustee agencies, as well as any public agency with environmental, public health protection, or emergency response authority, of the lead agency's invocation of this exemption.

(2) Mail notice of the project to the last known name and address of all organizations and individuals who have previously requested such notice and notify the public in the affected area by at least one of the following procedures:

(A) Publication at least one time in a newspaper of general circulation in the area affected by the proposed project. If more than one area is affected, the notice shall be published in the newspaper of largest circulation from among the newspapers of general circulation in those areas.

(B) Posting of notice on and off site in the area where the project is to be located.

(C) Direct mailing to the owners and occupants of contiguous property shown on the latest equalized assessment roll.

The notice shall include a brief description of the proposed project and its location, and the date, time, and place of any public meetings or hearings on the proposed project. This notice may be combined with the public notice required under other law, as applicable, but shall meet the preceding minimum requirements.

(3) In the case of private rights-of-way over private property, receive from the underlying property owner permission for access to the property.

(4) Immediately inform the lead agency if any soil contaminated with hazardous materials is discovered.

(5) Comply with all conditions otherwise authorized by law, imposed by the city or county as part of any local agency permit process, and to comply with the Keene-Nejedly California Wetlands Preservation Act (Public Resources Code Section 5810, et seq.), the California Endangered Species Act (Fish and Game Code Section 2050, et seq.), other applicable state laws, and all applicable federal laws.

(d) For purposes of this section, "pipeline" is used as defined in subdivision (a) of Government Code Section 51010.5. This definition includes every intrastate pipeline used for the transportation of hazardous liquid substances or highly volatile liquid substances, including a common carrier pipeline, and all piping containing those substances located within a refined products bulk loading facility which is owned by a common carrier and is served by a pipeline of that common carrier, and the common carrier owns and serves by pipeline at least five such facilities in California.

Note: Authority cited: Section 21083, Public Resources Code. Reference: Section 21080.23, Public Resources Code.

15285. Transit Agency Responses to Revenue Shortfalls.

(a) CEQA does not apply to actions taken on or after July 1, 1995 to implement budget reductions made by a publicly owned transit agency as a result of a fiscal emergency caused by the failure of agency revenues to adequately fund agency programs and facilities. Actions shall be limited to those directly undertaken by or financially supported in whole or in part by the transit agency pursuant to Section 15378(a)(1) or (2), including actions which reduce or eliminate the availability of an existing publicly owned transit service, facility, program, or activity.

(b) When invoking this exemption, the transit agency shall make a specific finding that there is a fiscal emergency. Before taking its proposed budgetary actions and making the finding of fiscal emergency, the transit agency shall hold a public hearing. After this public hearing, the transit agency shall respond within 30 days at a regular public meeting to suggestions made by the public at that initial hearing. The transit agency may make the finding of fiscal emergency only after it has responded to public suggestions.

(c) For purposes of this subdivision, "fiscal emergency" means that the transit agency is projected to have negative working capital within one year from the date that the agency finds that a fiscal emergency exists. "Working capital" is defined as the sum of all unrestricted cash, unrestricted short-term investments, and unrestricted short-term accounts receivable, minus unrestricted accounts payable. Employee retirements funds, including deferred compensation plans and Section 401(k) plans, health insurance reserves, bond payment reserves, workers' compensation reserves, and insurance reserves shall not be included as working capital.

(d) This exemption does not apply to the action of any publicly owned transit agency to reduce or eliminate a transit service, facility, program, or activity that was approved or adopted as a mitigation measure in any environmental document certified or adopted by any public agency under either CEQA or NEPA. Further, it does not apply to actions of the Los Angeles County Metropolitan Transportation Authority.

Note: Authority cited: Section 21083, Public Resources Code. References: Sections 21080 and 21080.32, Public Resources Code.

ELECTRONIC CODE OF FEDERAL REGULATIONS

e-CFR Data is current as of February 2, 2014

Title 40: Protection of Environment
PART 401—GENERAL PROVISIONS

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§401.15 Toxic pollutants.

The following comprise the list of toxic pollutants designated pursuant to section 307(a)(1) of the Act:

1. Acenaphthene

2. Acrolein

3. Acrylonitrile

4. Aldrin/Dieldrin[1]

[1]Effluent standard promulgated (40 CFR part 129).

5. Antimony and compounds[2]

[2]The term *compounds* shall include organic and inorganic compounds.

6. Arsenic and compounds

7. Asbestos

8. Benzene

9. Benzidine[1]

10. Beryllium and compounds

11. Cadmium and compounds

12. Carbon tetrachloride

13. Chlordane (technical mixture and metabolites)

14. Chlorinated benzenes (other than di-chlorobenzenes)

15. Chlorinated ethanes (including 1,2-di-chloroethane, 1,1,1-trichloroethane, and hexachloroethane)

16. Chloroalkyl ethers (chloroethyl and mixed ethers)

17. Chlorinated naphthalene

18. Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)

19. Chloroform

20. 2-chlorophenol

21. Chromium and compounds

22. Copper and compounds
23. Cyanides
24. DDT and metabolites[1]
25. Dichlorobenzenes (1,2-, 1,3-, and 1,4-di-chlorobenzenes)
26. Dichlorobenzidine
27. Dichloroethylenes (1,1-, and 1,2-dichloroethylene)
28. 2,4-dichlorophenol
29. Dichloropropane and dichloropropene
30. 2,4-dimethylphenol
31. Dinitrotoluene
32. Diphenylhydrazine
33. Endosulfan and metabolites
34. Endrin and metabolites[1]
35. Ethylbenzene
36. Fluoranthene
37. Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis(dichloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers)
38. Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromoform, dichlorobromomethane
39. Heptachlor and metabolites
40. Hexachlorobutadiene
41. Hexachlorocyclohexane
42. Hexachlorocyclopentadiene
43. Isophorone
44. Lead and compounds
45. Mercury and compounds
46. Naphthalene
47. Nickel and compounds
48. Nitrobenzene
49. Nitrophenols (including 2,4-dinitrophenol, dinitrocresol)
50. Nitrosamines
51. Pentachlorophenol
52. Phenol
53. Phthalate esters
54. Polychlorinated biphenyls (PCBs)[1]

55. Polynuclear aromatic hydrocarbons (including benzanthracenes, benzopyrenes, benzofluoranthene, chrysenes, dibenz-anthracenes, and indenopyrenes)

56. Selenium and compounds

57. Silver and compounds

58. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)

59. Tetrachloroethylene

60. Thallium and compounds

61. Toluene

62. Toxaphene[1]

63. Trichloroethylene

64. Vinyl chloride

65. Zinc and compounds

[44 FR 44502, July 30, 1979, as amended at 46 FR 2266, Jan. 8, 1981; 46 FR 10724, Feb. 4, 1981]

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For questions concerning e-CFR programming and delivery issues, email webteam@gpo.gov.

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APPENDIX L

Town of Windsor FOG Outreach Resources

Town of Windsor Wastewater Discharge Permit for Food Establishments
Fact Sheet and Frequently Asked Questions

What types of businesses require a Wastewater Discharge Permit?

Restaurants, cafeterias, grocery stores, assisted living facilities, hotel kitchens, church kitchens, hospital cafeterias, bars, and any other commercial or industrial operation that discharges wastewater that contains FOG.

What is FOG?

Fats, Oils, and Grease (FOG) is a byproduct of cooking and meat cutting. FOG can be found in meat fats, oils, shortening, butter, margarine, sauces, and dairy products.

Why is FOG an issue for my business?

FOG accumulates in sewer pipes and causes blockages. Grease blockages cause sewer overflows and sewer backups. Restaurants and other food service establishments can be closed down due to blockages and backups. Restaurants and other food service establishments can also be held financially responsible for damages resulting from blockages and backups to the Town's sewer system. Town Regulations require a grease removal device to prevent blockages and backups. In accordance with the State Water Resources Control Board, the Town of Windsor is reaching out to businesses to control the discharge of FOG to the sewer system. In addition to working with customers and advising them how to properly manage FOG, we are increasing our regulation of food service establishments. All food service establishments will receive regular inspections and will be required to obtain a Wastewater Discharge Permit in order to be in compliance with the Town's sewer ordinance.

What will FOG Inspectors be looking for?

The Town of Windsor has teamed with the City of Santa Rosa to conduct FOG inspections at your place of business. Under this arrangement, Santa Rosa inspectors (on behalf of the Town) will verify that your food service establishment is implementing Best Management Practices to minimize FOG discharge. The grease removal device will be inspected to verify that it is properly sized maintained, operating correctly and the permissible kitchen fixtures are connected to it. If no grease removal device (such as a grease trap) is present, your food service establishment may be required to install one (or more, if necessary).

Are other businesses in the area required to obtain a Wastewater Discharge Permit?

Restaurants and food service establishments are required to obtain a wastewater discharge permit from municipalities including Cotati, Rohnert Park, Sebastopol, Sonoma, and Sonoma County.

How do I obtain a Wastewater Discharge Permit?

A City of Santa Rosa inspector will be contacting you to set up an appointment to assist you in the permit application process. Inspections will take place during non-peak business hours.

If the owner or legal authorized representative is present during the initial meeting, the application and permit may be completed in the same visit. If not; when the application is completed and signed by the owner or legal representative, simply Fax to 707-838-5300 or mail to:

FOG Program
Town of Windsor
8400 Windsor Road
Windsor, CA 95492

Are there any fees involved?

There is no fee for obtaining a wastewater discharge permit.

Town of Windsor Industrial Waste Program
Wastewater Discharge Permit for Businesses

Fact Sheet and Frequently Asked Questions

What types of businesses require a Wastewater Discharge Permit?

Auto shops, food service establishments, industrial manufacturers, dentists, and others. For a more complete list, refer to *Business Type* list.

What is a Wastewater Discharge Permit and why is it required?

Businesses that have the potential to discharge pollutants that may be harmful to the Town's sewer system and facilities are required to acquire a permit in order to discharge wastewater to the Town's system. This requirement is stipulated in the Town's Municipal Code Section 12-4-302.

When does my new business need to have a valid permit?

Any user who is required to obtain a Wastewater Discharge Permit and who proposes to begin or recommence discharging wastewater shall obtain a permit prior to the beginning or recommencing of such discharge. An application for this Wastewater Discharge Permit shall be filed a minimum of sixty (60) days prior to the date upon which any discharge will begin or recommence. All new industrial users shall arrange for the Town Inspector to conduct a walk-through site inspection of the user's facilities during the sixty (60) day period prior to connecting or contributing wastewater to the Town.

What will Inspectors be looking for?

The Town of Windsor has teamed with the City of Santa Rosa to conduct inspections at your place of business. Under this arrangement, Santa Rosa inspectors (on behalf of the Town) will verify that your facility is or is not required to acquire a permit based on their review of your processes and operations that may show minimal or no discharge of wastewater that is of a certain quality or quantity that may be harmful to the Town's sewer system and facilities.

Are other businesses in the area required to obtain a Wastewater Discharge Permit?

Businesses are required to obtain a wastewater discharge permit from municipalities in the area including Cotati, Rohnert Park, Sebastopol, Sonoma, and Sonoma County.

How do I obtain a Wastewater Discharge Permit?

Contact Mike Cave, Water Systems Supervisor, to set up an appointment to assist you in the permit application process. Inspections will take place during non-peak business hours. Mike will put you in direct contact with the Inspector to schedule a date and time that is convenient.

If the owner or legal authorized representative is present during the initial meeting, the application and permit may be completed in the same visit. If not; when the application is completed and signed by the owner or legal representative, simply Fax to 707-838-5300 or mail to:

Mike Cave, Industrial Waste Program
Town of Windsor
8400 Windsor Road
Windsor, CA 95492

Are there any fees involved?

There is no fee for obtaining a wastewater discharge permit.

Revision Date: February 2014

List of Business Types that Should contact the Town of Windsor:

Automobile Repair and Autobody
Car Wash Facilities
Cement Manufacturers
Dentists
Electroplating, plating, anodizing, etc.
Food Service Facilities (Restaurants, bakeries, any cafeteria, community centers, day care, grocery stores, meat markets, schools, social organization kitchens)
Food Processing Facilities of any kind (cheese, fish, fruit, meat, poultry, vegetables)
Granite or Marble Counter Fabrication
Hospitals
Laboratory Facilities: medical, environmental, high school, specialty.
Laundry Cleaning Facilities of any kind.
Machine Shops, Metal fabricators
Manufacturers of art, computer chips, electronics, pharmaceuticals, signage, soap, thin film technology
Nursing Homes
Printers
Processes using acid etching, blackening, parts tumbling
Veterinary
Wineries and breweries

The following are some examples of typical requirements for certain business types.

Groundwater and one-time Discharge

- Treatment required (carbon)
- Sewer discharge volume/application fees
- Discharge meter
- Permit application/issue
- Inspection

Food Service

- Treatment required (grease trap or interceptor sizing and location)
- Trash enclosure covered
- Permit application/issue
- Inspection

Carwash

- Treatment required (oil water separator/sump)
- Recycled water
- Permit application/issue
- Inspection

Food Processor/Manufacturing/Winery/Brewery

- Treatment required (interceptor/other treatment as needed to meet discharge limits)
- Sewer discharge high strength fees (surcharge)
- Discharge limits
- Discharge meter
- Permit application/issue
- Inspection

DRAFT

Town of Windsor Industrial Waste Program
Wastewater Discharge Permit for Businesses
Fact Sheet and Frequently Asked Questions

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Last Revised: February 2014

DRAFT

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Cement Manufacturers
Dentists
Electroplating, plating, anodizing, etc.
Food Service Facilities (Restaurants, bakeries, any cafeteria, community centers, day care, grocery stores, meat markets, schools, social organization kitchens)
Food Processing Facilities of any kind (cheese, fish, fruit, meat, poultry, vegetables)
Granite or Marble Counter Fabrication
Hospitals
Laboratory Facilities: medical, environmental, high school, specialty.
Laundry Cleaning Facilities of any kind.
Machine Shops, Metal fabricators
Manufacturers of art, computer chips, electronics, pharmaceuticals, signage, soap, thin film technology
Nursing Homes
Printers
Processes using acid etching, blackening, parts tumbling
Veterinary
Wineries and breweries

The following are some examples of typical requirements for certain business types.

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- Inspection

Food Service

- Treatment required (grease trap or interceptor sizing and location)
- Trash enclosure covered
- Permit application/issue
- Inspection

Carwash

- Treatment required (oil water separator/sump)
- Recycled water
- Permit application/issue
- Inspection

Food Processor/manufacturing/Winery/Brewery

- Treatment required (interceptor/other treatment as needed to meet discharge limits)
- Sewer discharge high strength fees (surcharge)
- Discharge limits
- Discharge meter
- Permit application/issue
- Inspection

February 5, 2013

Esta notificacion contiene informacion muy importante sobre su drenaje sanitario. Traduzcalo o hable con alguien que lo entinada bien.

Notice To: Owners and Operators of Food Service Establishments

Subject: Wastewater Discharge Permit

Sanitary sewers are designed and installed with sufficient diameter to carry the normal waste discharges from a residence or business. When fats, oil and grease (FOG) are discharged to the sewer, it cools and accumulates on the sidewalls of the sewer pipes. Over time, this accumulation of grease restricts the flow and causes blockages in the sewer and may result in overflowing manholes or sewer backups. These overflows can discharge to storm drains and creeks that ultimately flow to the Russian River.

Because of this, all Food Service Establishments having the potential to discharge fats, oils, and grease (FOG) must apply to the Town of Windsor for a **Wastewater Discharge Permit**. This permit is required by the Windsor Municipal Code Section 12-4-302 in order for a business to continue to discharge to the Town's sewer system. Food Service Establishments may include restaurants, cafeterias, grocery stores, hotel kitchens, church kitchens, school kitchens, bars, or any other commercial or industrial operation that discharges grease laden wastewater.

The Town of Windsor contracts Industrial Waste inspection to the City of Santa Rosa. Santa Rosa staff provides the same services to other agencies including the cities of Santa Rosa, Rohnert Park, Cotati, and Sebastopol. All the agencies listed above require wastewater discharge permits for food service establishments.

A representative from the City of Santa Rosa will be visiting your business to help you with the permit application process. For a mid-size restaurant, it is estimated that the appointment will take approximately 30 to 45 minutes. A fact sheet is attached to this letter to provide additional information regarding this permit and the application process.

If you have any questions regarding this Notice, please contact Environmental Compliance Section at 543-3369 or email at *envcompliance@srcity.org*.

Sincerely,

Richard W. Burtt
Public Works Director/Town Engineer

APPENDIX M

Town of Windsor Application for Waste Discharge Permit and Agreement with City of Santa Rosa for Source Control Services

INSTRUCTIONS FOR WASTEWATER DISCHARGE PERMIT APPLICATION
RESTAURANTS / FOOD SERVICE

PART A APPLICATION/PERMIT

A1. **Applicant Business Name**: Use Corporation or DBA name.

A2. **Address of Premise Discharging Wastewater**: Include both sanitary and/or kitchen process waste. Indicate building numbers; if any.

A3. **Mailing address:** Complete *only if different* than premise address.

A4. Chief Executive Officer:

a. Name and title of person in charge of total operation (could be owner).
b. Mailing address of officer.

A5. Reference Data:

a. **Business License Number**: If your business is within the Town of Windsor, call (707) 838-5361 for license information.
b. **Premise Owned or Leased**: If you own the building occupied by your business, you only need to check the "owned" box. If you are leasing the building, enter the date the lease expires.
c. **Sewer / Water Account Numbers**: The account number is available on your sewer / water bill. If it is a new business or a new building, the account number will not be available until the new water meter is installed and your account is opened. If the sewer / water bill is paid by the landlord, *contact the landlord for the account number and the water meter number.*

A6. Primary Contact Person:

Person to be contacted about this application, or in case of an emergency. List person who would be easily accessible to our staff.

INSTRUCTIONS FOR WASTEWATER DISCHARGE PERMIT APPLICATION
RESTAURANTS / FOOD SERVICE

PART B BUSINESS DESCRIPTION

B1. Type of Business: General description of activity**.** Check if applicable, and describe specifically products and services of your business.

B2. **Hours of Operation**: Enter hours of operation and check days of operation.

B3. **Water Source:** Check if city or well water, and if metered. State community which provides sewer, or indicate if private septic.

PART C BUILDING LAYOUT

Make a sketch of your facility and / or submit blueprints showing the location of water meters, wells, storm drains, sewer lines, cleanouts and grease traps.

CERTIFICATION STATEMENT
An unsigned application will be rejected as incomplete

The Town of Windsor has requested and is obtaining assistance from staff from the City of Santa Rosa Utilities' Environmental Compliance Section. Santa Rosa staff provides the same services to other agencies including the cities of Santa Rosa, Rohnert Park, Cotati, Sebastopol and Sonoma County South Park Sanitation District.

Submit to:

Town of Windsor
Attn: Mike Cave, Water Systems Supervisor
P.O. Box 100, Windsor, CA 95492
Phone: (707) 838-5329
Fax: (707) 838-3137

Town of Windsor
WASTEWATER DISCHARGE PERMIT
RESTAURANTS / FOOD SERVICE

PART A – APPLICATION / PERMIT

A1. **Applicant Business Name**_____

A2. **Address of Premise <u>Discharging</u> Wastewater**_____

City _____State _____Zip _____

A3. **Mailing Address**_____

City _____State _____Zip _____

A4. **Chief Executive Officer** _____

a. Title _____

b. Mailing Address _____

City _____ State _____ Zip _____

A5. **a.** **Business License #** _____

b. Is Premise: **Owned** ☐ **Leased** ☐ Lease Expires _____

c. **Sewer/Water Account #** _____ **Water Meter #** _____

Shared With Other Business?_____

A6. **Primary Contact Person** _____

Title _____ Day Phone (____) _____

Night Phone (____) _____ Emergency Phone (____) _____

Email Address _____

Submit to:

Town of Windsor
Attn: Mike Cave, Water Systems Supervisor
P.O. Box 100, Windsor, CA 95492
Phone: (707) 838-5329
Fax: (707) 838-3137

Town of Windsor
WASTEWATER DISCHARGE PERMIT
RESTAURANTS / FOOD SERVICE

PART B - BUSINESS DESCRIPTION

Purpose: ***The Business Description is primarily used to determine the substances which may enter into the wastewater discharge from the Business Activity. The production quantities are necessary for State and Federal Reports.***

B1. **Type of Business:**

Restaurant ☐ **Food Manufacturing** ☐ **Wholesale** ☐ **Retail** ☐

Products Produced or Services Rendered_____

_____

Seating Capacity (Restaurants) _____

Dishwasher	**Yes** ☐	**No** ☐
Garbage Grinder	**Yes** ☐	**No** ☐
Grease Removal Device	**Yes** ☐	**No** ☐

If yes, type_____ size_____

B2. **Hours of Operation:**

From _____ To _____ (check) ☐**S** ☐**M** ☐**T** ☐**W** ☐**T** ☐**F** ☐**S**

B3. **Water Source:**

Town Water ☐ **Well** ☐ **Well Meter**: **Yes** ☐ **No** ☐

Sewer ☐ **Septic** ☐

Submit to:

Town of Windsor
Attn: Mike Cave, Water Systems Supervisor
P.O. Box 100, Windsor, CA 95492
Phone: (707) 838-5329
Fax: (707) 838-3137

Town of Windsor
WASTEWATER DISCHARGE PERMIT
RESTAURANTS / FOOD SERVICE

PART C - BUILDING LAYOUT

Purpose: ***The Building Layout shows wastewater generating operations which contribute to each building sewer. This building layout will also enable the Agency and the applicant to select suitable sampling locations for determining and verifying wastewater constituents.***

KITCHEN / FOOD PREPARATION LAYOUT

Show the location of all sinks (hand, pots & pans, prep), floor drains, dishwashers and disposals including sewer plumbing diagram. Also indicate location and plumbing plans for all grease removal equipment (grease traps / interceptors). Building plumbing blueprints with equipment location indicated are acceptable.

This document and any attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

_____ _____
Responsible Person **Date**

_____ _____
Print Name **Title**

This document must be signed by the most responsible person of the organization applying for the discharge permit. This includes the owner, president, corporate officer, or any other representative of the organization in a decision-making capacity. The person signing this document is legally responsible for all information contained herein, and becomes liable for any and all future enforcement actions.

SUBMIT APPLICATION

Submit to:

Town of Windsor
Attn: Mike Cave, Water Systems Supervisor
P.O. Box 100, Windsor, CA 95492
Phone: (707) 838-5329
Fax: (707) 838-3137

AGREEMENT BETWEEN TOWN OF WINDSOR AND CITY OF SANTA ROSA FOR INDUSTRIAL WASTE PROGRAM SERVICES

This Agreement is made this 19th day of January, 2012, between the Town of Windsor, a California municipal corporation, acting on behalf of the Town of Windsor and as the ex officio Board of Directors of the Windsor Water District ("TOWN"), and the City of Santa Rosa, a charter city ("CITY").

RECITALS

A. TOWN desires to contract with CITY to carry out specific tasks related to TOWN's Wastewater Discharge Permits and Wastewater [Pre]Treatment requirements as set forth in TOWN's Municipal Code.

B. CITY provides industrial waste program services through its Environmental Compliance Division and is willing to provide such services to TOWN to carry out TOWN's Wastewater Discharge Permits and Wastewater [Pre]Treatment requirements under the terms and conditions set forth in this Agreement.

C. The parties have negotiated upon the terms pursuant to which CITY will provide such services and have reduced such terms to writing.

AGREEMENT

NOW, THEREFORE, TOWN and CITY agree:

1. SCOPE OF SERVICE

a. CITY shall provide TOWN with those industrial waste program services set forth in written Task Orders to be mutually agreed in writing by those persons named in Section 8

below and related to TOWN's Wastewater Discharge Permits and Wastewater [Pre]Treatment requirements set forth in Title XII, Chapter 4, Articles 3, 4 and 5 of TOWN's Municipal Code, a copy of which is attached hereto as Exhibit A, in accordance with the provisions of this Agreement.

b. In connection with the provision of services under this Agreement and in accordance with Exhibit A, TOWN expressly:

(1) authorizes CITY to carry out those provisions of Title XII of TOWN's Municipal Code as City may determine to be necessary to provide the industrial waste program services set forth in mutually agreed upon Task Orders.

(2) delegates to CITY the authority granted to TOWN's "District Engineer" under the provisions of Title XII, Chapter 4 of TOWN's Municipal Code as City may determine to be necessary to provide the industrial waste program services set forth in mutually agreed upon Task Orders.

(3) agrees that, in addition to the notice requirements set forth at Section 8 herein, any and all oral, written or electronic notices provided, given, sent or delivered from any person or entity to TOWN's District Engineer in connection with or pursuant to Title XII, Chapter 4 of TOWN's Municipal Code shall be forwarded to City within 24 hours by telephone notification to:

Environmental Compliance

(707) 543-3369

And electronic copy of any such notice to:

envcompliance@srcity.org

c. CITY shall not begin work until the execution of a mutually agreed upon Task Order, which will be developed in consultation with TOWN and will identify the services CITY is authorized to undertake by TOWN for the fiscal year (July1 – June 30). Task Order No. 1 for the remainder of fiscal year 2011-2012 is attached hereto as Exhibit B.

d. In case of any conflict between the terms of this Agreement, Exhibit A, Exhibit B, Exhibit C, or future Task Orders hereunder, the terms of this Agreement shall control.

e. CITY and TOWN agree to meet annually, no later than March 1st of each fiscal year to agree upon a Task Order for the next fiscal year. In the event CITY and TOWN do not reach agreement upon a Task Order for the next fiscal year by April 1st of each fiscal year, either party may terminate this Agreement upon five (5) days notice.

e. TOWN and CITY agree that CITY will not provide services in connection with:

Section 12-4-351 Wastewater Discharge Permit-Revocation/Termination of Service
Section 12-4-355 Wastewater Discharge Program Charges and Fees;
Section 12-4-460 Civil Penalties;
Section 12-4-461 Injunctive Relief; and
Section 12-4-462 Search/Inspection Warrants
Section 12-4-476 Publication of Users in Noncompliance
Section 12-4-482 Connection Outside the District Boundaries

of TOWN's Municipal Code.

f. CITY will consult with TOWN's District Engineer prior to providing services in connection with Section 12-4-470 Emergency Suspension of Discharge of TOWN's Municipal Code.

2. COMPENSATION

a. As compensation for all services of CITY in performance of this Agreement, TOWN shall pay CITY in accordance with the rates and charges as set forth in Exhibit C. City shall submit monthly statements to TOWN, which statements shall itemize the equipment used, the hours of work, and the services performed to the date of the statement. Invoices shall identify personnel who have worked on the services provided, the number of hours each worked during the period covered by the invoice, and the hourly rate for each person and for equipment used to perform services.

b. City may adjust or increase the rates and charges as set forth in Exhibit C upon thirty (30) days advance notice to TOWN.

c. Each mutually agreed upon Task Order will specify a "not to exceed" amount. The total maximum compensation to be paid to CITY by TOWN for the satisfactory accomplishment and completion of tasks identified in the Task Order shall in no event exceed the "not to exceed" amount specified in the Task Order. Upon providing services up to the "not to exceed" amount specified in a Task Order, CITY shall not be obligated to provide further services to TOWN under any Task Order or this Agreement.

d. Payments prescribed herein shall constitute all compensation to CITY for all costs of service, including but not limited to, direct costs of labor of employees engaged by CITY, travel expenses, telephone charges, typing, duplication, computer time, and any and all other costs, expenses and charges of CITY, its agents and employees.

e. TOWN shall pay invoices within thirty-five (35) days of the date CITY submits invoice to TOWN.

3. DOCUMENTATION: RETENTION OF MATERIALS

CITY and TOWN shall maintain the records and any other records related to the performance of this Agreement, and shall allow one another access to such records, for a period of four (4) years.

4. INDEMNIFICATION

TOWN shall, to the fullest extent permitted by law, indemnify, protect, defend and hold harmless CITY, and its employees, officials and agents ("Indemnified Parties") for all claims, demands, costs or liability, including liability for claims; suits; actions; arbitration proceedings; administrative proceedings; regulatory proceedings, including but not limited to any and all proceedings brought under the Federal Clean Water Act (including but not limited to third party, citizens enforcement claims or lawsuits), any and all proceedings brought under the Porter-Cologne Water Quality Act of the State of California, and any and all proceedings brought by the California State Water Resources Control Board and/or a Regional Water Quality Control Board; losses, expenses or costs of any kind, interest, defense costs, and expert witness fees), that arise out of, pertain to, or relate to the performance of this Agreement, excepting only liability arising from the sole active negligence or intentional misconduct of CITY. If there is a possible obligation to indemnify, TOWN'S duty to defend exists regardless of whether it is ultimately determined that there is no obligation to indemnify.

5. INSURANCE

a. TOWN and CITY shall maintain in full force and effect all of the insurance coverage or equivalent insurance coverage to that described in, and in accordance with, Attachment One, "Insurance Requirements", which is attached hereto and hereby incorporated and made part of this Agreement by this reference.

6. ASSIGNMENT

Neither TOWN nor CITY shall assign any rights or duties under this Agreement to a third party without the express prior written consent of the other party.

7. TERM and TERMINATION

a. This Agreement shall be effective upon the date specified above and terminate on June 30, 2021, unless earlier terminated as provided in Section 1.d. above or Section 7.b. below.

b. This Agreement may be earlier terminated by either party:

(1) without cause by giving one hundred eighty (180) days advance written notice to the other in writing of its intent to terminate the Agreement; or

(2) with cause by giving sixty (60) days advance written notice to the other of its intent to terminate the Agreement.

c. Upon termination, CITY shall submit to TOWN an itemized statement of TOWN shall pay CITY for any such work for which compensation has not previously been made by TOWN.

8. NOTICES

Except as otherwise specifically provided in this Agreement, any notice, submittal or communication required or permitted to be served on a party, shall be in writing and may be served by personal or electronic delivery to the person below or by personal delivery to the office of the person identified below. Service may also be made by mail, by placing first-class postage, and addressed as indicated below, and depositing in the United States mail to:

TOWN:	Richard Bartlett	**CITY: Martin St. George**
Position:	Public Works Manager	Position: Environmental Compliance Supervisor
Address:	PO Box 100, Windsor, CA 95492	Address: 4300 Llano Rd. Santa Rosa, CA 95407
E-mail:	rbartlett@townofwindsor.com	E-mail: MStGeorge@srcity.org
Telephone:	(707) 838-5309	Telephone: (707) 543-3369
Mobile Telephone:	(707) 301-0838	Mobile Telephone: (707) 695-2692
Facsimile:	(707) 838-3137	Facsimile: (707) 543-3398

9. ADDITIONAL SERVICES

If the parties make a decision to change the scope of services, as delineated in Section 1 above, all such changes shall be by written amendment to this Agreement as mutually agreed by TOWN and CITY prior to the provision of any such additional services.

10. SUCCESSORS AND ASSIGNS

TOWN and CITY each binds itself, its partners, successors, legal representatives and assigns to the other party to this Agreement and to the partners, successors, legal representatives and assigns of such other party in respect of all promises and agreements contained herein.

11. TIME OF PERFORMANCE

CITY shall begin work on this project upon receipt of a written notice to proceed from TOWN, but in no event prior to receiving a fully executed Agreement from TOWN and obtaining and delivering the required insurance coverage, and satisfactory evidence thereof, to and from TOWN.

12. MISCELLANEOUS

(A) Entire Agreement. This Agreement contains the entire agreement between the Parties. Any and all verbal or written agreements made prior to the date of this Agreement are superseded by this Agreement and shall have no further effect.

(B) Modification. No modification or change to the terms of this Agreement will be binding on a Party unless in writing and signed by an authorized representative of that Party.

(C) Compliance with Laws. TOWN and CITY shall perform all services described herein in compliance with all applicable federal, state and local laws, rules, regulations, and ordinances.

(D) Governing Law; Venue. This Agreement shall be construed, and its performance enforced, under California law. Because this Agreement is to be performed in the County of Sonoma, the parties hereto agree that the forum for the adjudication of any dispute regarding the Agreement or enforcement shall be brought exclusively and solely in Sonoma County, California.

(E) Waiver of Rights. It is the intent of the parties hereto that from time to time either party may waive any of their rights under this Agreement, unless contrary to law. Any waiver by either party hereto of rights arising in connection with this Agreement, shall not be

deemed a waiver with respect to any other rights or matters, whether under this Agreement or otherwise.

(F) Incorporation of attachments and exhibits. The following attachments and exhibits are intended to, and shall, be incorporated and made part of this Agreement, subject to terms and provisions herein contained:

Attachment One	- Insurance Requirements
Exhibit A	- Title XII, Chapters 3, 4 and 5 of TOWN Municipal Code
Exhibit B	- Task Order for Remainder of Fiscal Year 2011-2012
Exhibit C	- Budget/Rate Schedule

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

TOWN OF WINDSOR, a California Municipa Corporation

By: J Matthew Mullan

Name: J. Matthew Mullan

Title: Town Manager

ATTEST: Maria De La O
City Clerk

APPROVED AS TO FORM:

By: Richard R. Rushmore
Town Attorney

CITY OF SANTA ROSA,
a charter city

By:

Name: RICHARD A. DOWD

Title: CHAIR BPU

ATTEST: Gina Perry
~~City Clerk~~
Recording Secretary

APPROVED AS TO FORM:

By:
City Attorney's Office

ATTACHMENT 1
INSURANCE REQUIREMENTS

TOWN and CITY shall, at all times during the terms of this Agreement, maintain and keep in full force and effect, the following policies of insurance and/or self-insurance with minimum coverage

A.	Commercial general liability at least as broad as ISO CG 0001	(per occurrence) (aggregate)	$1,000,000 $2,000,000
B.	Business auto coverage at least as broad as ICO CA 0001	(per accident)	$1,000,000
C.	Workers Compensation Employer's Liability		Statutory $1,000,000

Other Insurance Provisions

The TOWN's general liability policy is to contain, or to be endorsed to contain the following provisions:

The City of Santa Rosa, its officers, agents, employees and volunteers are to be named as**additional insureds**.

For any claims arising from this Agreement,**TOWN's insurance coverage shall be primary** and any insurance or self-insurance maintained by the CITY shall be excess of the TOWN's insurance and shall not contribute with it.

The TOWN's Workers Compensation policy shall have statutory limits and shall be endorsed with a waiverof subrogation in favor of CITY, its employees, agents and contractors.

Verification of Coverage and Certificates of Insurance

TOWN shall furnish the CITY and CITY shall furnish the TOWN with original certificates effecting coverage required above. All certificates and endorsements are to be received and approved by the CITY and TOWN before work commences under this Agreement and must be in effect for the duration of the Agreement.

CALIFORNIA JOINT POWERS RISK MANAGEMENT AUTHORITY

Accredited with Excellence from the California Association of Joint Powers Authorities

CERTIFICATE OF COVERAGE

Certificate Holder and Additional Covered Party: The City of Santa Rosa, its officers, agents, employees and volunteers
4300 Llano Road
Santa Rosa, CA 95407

This certifies that the coverage Described herein has been issued to: REMIF - Town of Windsor

Description of Activity: Wastewater discharge permits and treatment

Date(s) of Activity: 01/19/2012 - renewed each year

Location of Activity: City and town service contract

Entity Providing Coverage	Excess Coverage	Certificate Expiration Date
California Joint Powers Risk Management Authority	$ 500,000 excess of $ 500,000	6/30/2012

The following coverage is in effect and is provided through participation in a risk sharing joint powers authority: comprehensive general liability, automobile liability, and public officials errors and omissions, as defined in the Memorandum of Coverage on file with the entity and which will be made available upon request.

The coverage being provided is limited to the activity and the time period indicated herein and is subject to all the terms, conditions and exclusions of the Memorandum of Coverage of the California Joint Powers Risk Management Authority.

Pursuant to Section II, subsection 8, relating to the definition of a covered party, the certificate holder named herein is only an additional covered party for covered claims arising out of the activity described herein and is subject to the limits stated herein.

Coverage is in effect at this time and will not be cancelled, limited or allowed to expire at a date other than that indicated herein except upon 30 days written notice to the certificate holder.

1/12/2012
Date

David J. Clovis
Authorized Signature

David J. Clovis, ARM, General Manager
Name and Title (Print or type)

Form C – Revised 03/24/2010

Exhibit A
Title XII, Chapter 4, Articles 3, 4 and 5 of TOWN's Municipal Code

Windsor, California, Code of Ordinances >> TITLE XII - WINDSOR WATER DISTRICT >> CHAPTER 4. - SEWER >> Article 3. - Wastewater Discharge Permits >>

Article 3. - Wastewater Discharge Permits

12-4-301 - Wastewater Discharge Permit Classification.
12-4-302 - Wastewater Discharge Permit.
12-4-303 - Wastewater Discharge Permit and Existing Conditions.
12-4-306 - Wastewater Discharge Permit and New Connections.
12-4-311 - Wastewater Discharge Permit Application Process.
12-4-316 - Application Signatories and Certification.
12-4-321 - Wastewater Discharge Permit Issuance Process.
12-4-331 - Wastewater Discharge Permit Duration.
12-4-336 - Wastewater Discharge Permit Contents.
12-4-340 - Wastewater Discharge Permit Modifications.
12-4-345 - Wastewater Discharge Permit Transfer.
12-4-350 - Wastewater Discharge Permit Appeals.
12-4-351 - Wastewater Discharge Permit-Revocation/Termination of Service.
12-4-355 - Wastewater Discharge Program Charges and Fees.
12-4-360 - Slug Control Plan.
12-4-365 - Change of Wastewater Permit Restrictions.

12-4-301 - Wastewater Discharge Permit Classification.

The General Manager will classify all users in accordance with the principal activity conducted on the premises where the discharge occurs. The purpose of the classification is to facilitate regulation of discharges to the wastewater collection system on the basis of each user's waste quality, quantity, and flow; to provide an effective means of source control of toxic substances; and to provide a basis for sewer use charges to insure an equitable recovery of capital and operating costs. User permit classifications are as follows:

a. Nonresidential User. Users that discharge nondomestic wastewater to the POTW and do not meet the criteria of Significant Industrial User.
b. Zero Discharger. Users who do not discharge to the POTW, except domestic wastewater, do not have pollutants resulting from any commercial or industrial process, have no floor drains, and do not generate wastewater.
c. Significant Industrial User. See Article 5 Definitions.
d. Ongoing Groundwater Discharger. Users that discharge wastewater generated from groundwater remediation projects in excess of six (6) months.
e. One Time Discharger. Users that discharge wastewater generated as a result of purging monitoring wells, dewatering underground storage tanks, groundwater sampling, or for a variety of other reasons for projects that will not exceed six (6) months.
f. Waste Hauler. Haulers that service domestic waste systems. Such systems include septic tanks, cesspools, chemical toilets, trailers, or campers.

Residential users under normal circumstances will not be required to apply for or receive a Wastewater Discharge Permit as defined in this title, providing that said user discharges only domestic wastewater.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-302 - Wastewater Discharge Permit.

a. No SIU or nonresidential user shall discharge wastewater into the POTW without first obtaining a Wastewater Discharge Permit from the General Manager, except when the SIU has filed a timely application and their Wastewater Discharge Permit is pending finalization.
b. The General Manager may require other users to obtain a Wastewater Discharge Permit as necessary to carry out the purposes of this title.
c. Any violation of the terms and conditions of a Wastewater Discharge Permit shall be deemed a violation of this title. Obtaining a Wastewater Discharge Permit does not relieve a user of its obligation to comply

with all Federal and State pretreatment standards or requirements with any Federal, State and local law.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-303 - Wastewater Discharge Permit and Existing Conditions.

Any unpermitted user not previously required to obtain a Wastewater Discharge Permit, who was discharging to the POTW prior to the effective date of this title, and who wishes to continue such discharges in the future, shall, within thirty (30) days after the effective date of this title, apply to the General Manager for a Wastewater Discharge Permit in accordance with this title. The user shall not cause or allow discharges to the POTW to continue after thirty (30) days of the effective date of this section except in accordance with a Wastewater Discharge Permit issued by the General Manager. Permits issued by the General Manager, pursuant to prior pretreatment requirements, shall remain valid for their stated terms or until terminated or amended pursuant to this title.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-306 - Wastewater Discharge Permit and New Connections.

Any user who is required to obtain a Wastewater Discharge Permit and who proposes to begin or recommence discharging into the POTW shall obtain such permits prior to the beginning or recommencing of such discharge. An application for this Wastewater Discharge Permit shall be filed a minimum of sixty (60) days prior to the date upon which any discharge will begin or recommence. All new industrial users shall arrange for the General Manager to conduct a walk-through site inspection of the user's facilities during the sixty (60) day period prior to connecting or contributing wastewater to the District's POTW.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-311 - Wastewater Discharge Permit Application Process.

The General Manager may require all users to submit either independently, or as part of an application, the following information:

a. Identifying Information. The name and address of the facility, including the name of the operator and owner.

b. General Facility Description. SIC numbers, hours of operation, principle business activities, products produced and/or services provided at this facility, number and type of employees, and proposed or actual hours of operation.

c. Environmental Control Permits. A list of any environmental control permits held by or for the facility including permitting agency, permit type, and identification number.

d. Description of Operations. Facilities and plant operations/processes, wastewater generating activities, type and amount of raw materials processed (average and maximum per day) and disposal methods, each product produced by type, amount, process or processes, and rate of production, time(s), and duration of all process discharges.

e. Facility Layout. Facility layout including floor plans, mechanical and plumbing plans, process flow, and details to show all sewers, floor drains, and appurtenances by size, location and elevation and discharge locations.

f. Flow Measurement. Measured or estimated average and maximum daily flow, monthly average, and seasonal variations of wastewater flow rates in gallons per day to the District POTW from regulated process streams and other streams as necessary to use the combined wastestream formula or flow weighted average formula.

g. Pollutant Measurement. Wastewater constituents and characteristics measured or estimated, including any pollutants in the discharge which are limited by any federal, state, or local standards, or pretreatment standards applicable to each regulated process; and nature and concentration (or mass if pretreatment standard requires) of regulated pollutants in each regulated process (daily maximum and average concentration or mass when required by a pretreatment standard). Sampling and analysis will be undertaken in accordance with 40 CFR Part 136.

h. Compliance Certification. A certification statement reviewed by an authorized representative of the user and certified by a qualified professional indicating whether or not the pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance and/or additional pretreatment is necessary for the user to meet pretreatment standards and

requirements. [40 CFR Part 403.12(b)(6)]

i. Other Information. Any other information as may be deemed by the General Manager to evaluate the permit application. Incomplete or inaccurate applications will not be processed and will be returned to the industrial user for revision.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-316 - Application Signatories and Certification.

All Wastewater Discharge Permit applications shall be signed by a responsible corporate officer, general partner, proprietor, or duly authorized representative of the user and contain the following certification statement: [40 CFR Part 403.12(l) or as amended.]

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." [40 CFR Part 403.6(a)(2)(ii) or as amended.]

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-321 - Wastewater Discharge Permit Issuance Process.

The Wastewater Discharge Permit shall be issued upon final inspection and acceptance of construction of the connection and, when required, upon the application and issuance of a Wastewater Discharge Permit. The General Manager shall provide notice of the issuance of a Wastewater Discharge Permit to the applicant. Any permit applicant may petition the General Manager to reconsider terms of a Wastewater Discharge Permit in conformance with the terms of Section 12-4-350 Wastewater Discharge Permit Appeals.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-331 - Wastewater Discharge Permit Duration.

Each Wastewater Discharge Permit will indicate a specific date upon which it will expire, not to exceed five (5) years from the effective date of the Permit. The user shall apply for a Wastewater Discharge Permit reissuance a minimum of ninety (90) days prior to the expiration of the user's existing Wastewater Discharge Permit. Expiration of a Wastewater Discharge Permit does not relieve the discharger of requirements outlined in their existing Wastewater Discharge Permit.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-336 - Wastewater Discharge Permit Contents.

A Wastewater Discharge Permit shall include such conditions as are deemed reasonably necessary by the General Manager to prevent pass through or interference, protect the quality of the water body receiving the treatment plant's effluent, protect worker health and safety, facilitate sludge management and disposal, and protect against damage to the POTW.

a. Wastewater discharge permits will contain provisions, requirements, and standards appropriate to carry out the objectives of this title, including, but not limited to the following:
   1. A statement that indicates Wastewater Discharge Permit duration, which shall not exceed five (5) years for SIU and Categorical Users;
   2. A statement that the Wastewater Discharge Permit is nontransferable. Any new user must apply for a new Wastewater Discharge Permit and receive prior approval from the General Manager before discharging to the sewer;
   3. Effluent limits based on applicable pretreatment standards;
   4. Self-monitoring, sampling, reporting, notification, and recordkeeping requirements. These requirements shall include an identification of pollutants to be monitored, sampling location,

sampling frequency, sample type based on pretreatment standards, and retention of records for three (3) years;

5. A statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the time for compliance beyond that required by applicable Federal, State, or local law;

b. Wastewater discharge permits may contain provisions, requirements, and standards appropriate to carry out the objectives of this title, including, but not limited to the following:

1. Limits on the average and maximum wastewater constituents and characteristics. These limits may be based on pollutant concentration and/or mass and may include prohibitions on discharge of said pollutants;
2. Limits on the average and/or maximum rate of discharge, time of discharge, and/or requirements for flow regulation and equalization;
3. Implementation of Best Management Practices or Best Available Technology as determined by the General Manager.
   (a) Requirements for the installation of pretreatment technology, pollution control, or construction of appropriate containment devices, designed to reduce, eliminate, or prevent the introduction of pollutants into the treatment works;
   (b) Requirements for the development and implementation of spill control plans, Toxic Organic Management Plan or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or nonroutine discharges;
   (c) Development and implementation of waste minimization plans to reduce the amount of pollutants discharged to the POTW;
   (d) Requirements for installation and maintenance of inspection, sampling and flow metering facilities, and other related monitoring equipment and three (3) years of records retention;
   (e) A statement that compliance with the Wastewater Discharge Permit does not relieve the user of responsibility for compliance with all applicable Federal and State pretreatment standards, including those which become effective during the term of the Wastewater Discharge Permit;
   (f) Requirements for reporting compliance schedules, self-monitoring, change in conditions, change in discharge including slug loads, bypass, process changes and chemical changes and automatic resampling;
   (g) The prohibition of dilution as partial or complete substitute for adequate pretreatment to achieve compliance with the Wastewater Discharge Permit conditions;
   (h) Signatory requirements specifying the responsible corporate officer for the industrial user;
   (i) Payment of additional charges as stated in Section 12-4-125 Sewer Charges and Regulations;
   (j) Other conditions as deemed appropriate by the General Manager to ensure compliance with this title, and State and Federal laws, rules, and regulations or the terms of the permit.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-340 - Wastewater Discharge Permit Modifications.

The General Manager may modify a Wastewater Discharge Permit for good cause, including, but not limited to, the following reasons:

a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements;
b. To address significant alterations or additions to the user's operation, processes, or wastewater volume or character since the time of Wastewater Discharge Permit issuance;
c. A change in the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge;
d. Information indicating that the permitted discharge poses a threat to the POTW, personnel, or the receiving waters;
e. Violation of any terms or conditions of the wastewater discharge or this title;
f. Misrepresentations or failure to fully disclose all relevant facts in the Wastewater Discharge Permit application or in any required reporting;
g. Revision of or a grant of variance from categorical pretreatment standards pursuant to 40 CFR

Part 403.13; or

h. To correct typographical or other errors in the Wastewater Discharge Permit.

The filing of a request by the user for a permit modification does not stay any permit condition.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-345 - Wastewater Discharge Permit Transfer.

Wastewater discharge permits are issued to a specific user for a specific operation. A Wastewater Discharge Permit shall not be reassigned or transferred or sold to a new owner, new user, different premises, or a new or changed operation. However, nothing in this section shall be construed to prevent the application of the terms and conditions of this title, including enforcement penalties, from applying to a succeeding owner, successor in interest, or other assigns of an existing contract or Wastewater Discharge Permit holder.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-350 - Wastewater Discharge Permit Appeals.

If the discharger or applicant for a permit is dissatisfied with the decision, enforcement action, permit terms or determination made by the General Manager, he may, within thirty (30) days after receipt of said ruling by the General Manager, appeal said ruling by giving written notice of the basis of his appeal to the Board of Directors. The Board shall, within thirty (30) days after receipt of said written notice of appeal, make a final determination of the issue submitted.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-351 - Wastewater Discharge Permit-Revocation/Termination of Service.

Wastewater discharge permits maybe revoked or user's service may be terminated when any provision of this title are violated.

Such users will be notified of the proposed termination of its discharge and be offered an opportunity to show cause why the proposed action should not be taken. Exercise of this option by the General Manager shall not be a bar to, or a prerequisite for, taking any other action against the user.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-355 - Wastewater Discharge Program Charges and Fees.

The District may adopt reasonable fees for reimbursement of costs of setting up and operating the District's industrial wastewater program which may include:

a. Fees for Industrial Wastewater Discharge Permit applications including the cost of processing such applications;

b. Fees for monitoring, inspection, and surveillance procedures including the cost of collection and analyzing a user's discharge, and reviewing monitoring reports submitted by users;

c. Fees for reviewing and responding to accidental discharge procedures and construction;

d. Fees for filing appeals; and

e. Other fees as the District may deem necessary to carry out the requirements contained herein. These fees relate solely to the matters covered by this title and are separate from all other fees, fines, and penalties chargeable by the District.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-360 - Slug Control Plan.

The General Manager may require any Significant Industrial User or other user to develop a slug control plan. Before issuance of a Wastewater Discharge Permit, the General Manager shall determine whether a user needs such a plan. Any user required to develop and implement slug control plan shall submit, at a minimum, the following:

a. Description of discharge practices, including nonroutine batch discharges.
b. Description of stored chemicals.
c. Procedures for immediately notifying the General Manager of any accidental or slug discharge. Such notification must also be given for any discharge which would violate any of the prohibited discharges.
d. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response.

In the case of an accidental spill/or slug discharge, refer to Section 12-4-415 Accidental Discharges.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-365 - Change of Wastewater Permit Restrictions.

The District may change the restrictions or conditions of a Wastewater Discharge Permit from time to time as circumstances may require. The District shall allow a discharger a reasonable period of time to comply with any changes in the Wastewater Permit required by the District or regulatory agencies of the State and Federal governments.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

Windsor, California, Code of Ordinances >> TITLE XII - WINDSOR WATER DISTRICT >> CHAPTER 4. - SEWER >> Article 4. - Wastewater Treatment >>

Article 4. - Wastewater Treatment

12-4-400 - General.
12-4-405 - Technical Requirements.
12-4-406 - Prohibited Wastes.
12-4-407 - Local Limits.
12-4-410 - Wastewater Sampling.
12-4-411 - Pretreatment of Wastewaters.
12-4-412 - Grease Removal Devices.
12-4-413 - Amalgam Separators.
12-4-415 - Accidental Discharges.
12-4-420 - Right of Entry.
12-4-425 - Damage Caused by Prohibited Wastewater Discharge.
12-4-440 - Reports of Changed Discharges.
12-4-456 - Reporting Requirements.
12-4-460 - Civil Penalties.
12-4-461 - Injunctive Relief.
12-4-462 - Search/Inspection Warrants.
12-4-470 - Emergency Suspensions of Discharge.
12-4-472 - Vandalism and Tampering.
12-4-474 - Confidential Information.
12-4-476 - Publication of Users in Noncompliance.
12-4-478 - Notice.
12-4-480 - Special Terms and Conditions.
12-4-482 - Connection Outside the District Boundaries.
12-4-484 - Severability.

12-4-400 - General.

The design and construction of all sewers, connections to sewers, pretreatment facilities and appurtenances which are directly or indirectly connected to the District sewer and wastewater treatment system shall be in accordance with all State laws, District ordinances, standard drawings, specifications and regulations as may be adopted from time to time by resolution of the Board and in accordance with generally accepted engineering practice. Any public works to be constructed shall be designed by an engineer licensed to practice in California.

Separate sewer service connections are required for each separate building whether or not such building is on the same or a different lot or parcel of land.

Exceptions may be made upon appeal to the Board, where several single-family, multifamily, commercial or industrial units are constructed within several buildings on the same parcel of land, where it is agreed that such land can be adequately served by a single private sewer main.

If the land is later divided; then separate laterals shall be provided for each building or several buildings on each separate parcel of land or for each air space unit unless the private sewer main has been legally made the responsibility of the property or unit owner(s). Such property owner or owners association will be responsible for construction, reconstruction, maintenance and repair, of the private sewer main.

In the case of the exception, a private sewer main may be placed in the proposed development with laterals to each building.

Such private sewer main shall be connected to the sewer main at a single location and a manhole or clean out shall be provided on the private main at or near the point of connection with the POTW, normally near the property line. All such private sewer mains and all such laterals thereto shall be installed at the expense of the property owner or developer.

The property owner will be responsible for construction, reconstruction, maintenance and repair of the private sewer main. For private sewer mains, the property owner or owners association shall apply for, and be responsible for a single billing, for the service.

Where such connections pre-exist these regulations, they must be permitted until sale of the parcel, at which

time a separate lateral sewer shall be provided for the sold parcel.

Old lateral sewers may be used in connection with new buildings only when they are found, upon examination and test by the District Engineer, to meet all requirements of this ordinance and the adopted Standards.

In all buildings in which any building sewer is too low to permit gravity flow to the public sewer, wastewater carried by such building sewer shall be lifted by artificial means, approved by the Sonoma County Building Official and discharged to the public sewer at the expense of the owner. Adequate antibackflow devices shall be installed by the applicant.

The connection of the building sewer into the public sewer shall be made at the lateral or "T" branch, if such lateral "T" branch is available at a suitable location. Where no properly located "T" branch is available, a neat hole may be cut into the public sewer to receive the building or lateral sewer, with entry in the downstream direction at an angle of forty-five (45) degrees. A wye saddle shall be used for the connection and in no case shall the pipe protrude inside the main sewer. A smooth, neat joint shall be made, and the connection made secure and watertight, including by encasement in concrete, if so determined by the District. The connection to the public sewer shall be made in the presence of the District Engineer's representative and under his supervision and direction. Any cutting of public mains shall be done in the presence of the District Engineer's representative. All costs will be borne by applicant. Any damage to the public sewer shall be repaired at the cost of the applicant to the satisfaction of the District Engineer.

All excavations for a lateral sewer installation shall be adequately guarded with barricades or lights so as to protect the public from hazard. Streets, sidewalks, parkways and other property damaged in the course of the work shall be restored in a manner satisfactory to the District Engineer.

All domestic or sanitary wastewaters from rest rooms, showers, drinking fountains, etc., shall be kept separate from all industrial wastewaters until the industrial wastewaters have passed through any required pretreatment system or device. A control manhole of a design approved by the District shall be furnished and installed by certain designated industrial wastewater dischargers to facilitate inspection, sampling and flow measurements by personnel of the District. This control manhole shall be located off the industrial premise or if within the plant fence, a special locked gate provided, with keys to the gate lock given to the District. Unrestricted access to this control manhole shall be available to authorized personnel of the District at all times. The control manhole may be used as a junction manhole for wastewater provided the junction occurs downstream of the sampling or flow measuring point.

Each discharger shall provide protection from accidental discharge of prohibited materials or other wastes, regulated by this chapter. Where necessary, or as directed by the District Engineer, retention basins, dikes, storage tanks or other devices designed to eliminate, neutralize, offset or otherwise negate the effects or prohibited materials or waste discharges in violation of this ordinance shall be installed.

Lateral sewers shall be maintained clear and unobstructed by the user of the property served from the building being served up to the front property line providing a cleanout accessible to maintenance forces is available. If a cleanout is not available, the owner shall maintain the lateral to its connection to the public main.

All lateral sewers shall be tested by means approved by the District, in the presence of the District Engineer. All lines showing excessive leakage shall be repaired or replaced at the expense of the person doing the work and shall be done at the direction and to the satisfaction of the District Engineer.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-405 - Technical Requirements.

The design of sewers connected to or a part of the sewer system shall conform to the technical requirements of the District Engineering Design and Construction Standards, latest version.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-406 - Prohibited Wastes.

General Prohibitions. No user shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through, interference, or is listed in the Specific Prohibitions below. These general prohibitions apply to all users discharging to the POTW whether or not they are subject to categorical pretreatment standards or any other Federal, State, or local pretreatment standards or requirements.

Specific Prohibitions. No person shall introduce or cause to be introduced into the POTW the following

pollutants, substances or wastewater:

a. Any liquid or water causing the temperature at the POTW to exceed one hundred four (104) degrees Fahrenheit, or inhibits biological activity at POTW.
b. Any petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin, in amounts that cause interference or pass through.
c. Any pollutant which creates fire or explosive hazard in the POTW including, but not limited to, waste streams with a closed cup flashpoint of less than one hundred forty (140) degrees Fahrenheit.
d. Any garbage, except garbage shredded to one-fourth (¼) inch maximum size from individual dwelling units. The installation and use of garbage grinders in industrial, commercial or institutional establishments is prohibited.
e. Any ashes, bones, hair, whole blood, cinders, and mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manure, or any other solids or viscous substances capable of causing obstruction to the flow in POTW resulting in interferences.
f. Any waters or wastes having a pH lower than five and one-half (5.5) or higher than eleven (11.0) or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the POTW.
g. Any pollutant which will result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
h. Any pollutant, including oxygen demanding pollutants, released in a discharge at a flow rate and/or pollutant concentration that will cause interference with the POTW.
i. Any trucked or hauled pollutants including septic tank sludge, except at discharge points designated by the POTW.
j. Any malodorous substance, such as Hydrogen Sulfide, or any other substance which will cause offensive odors in the POTW.
k. Any radioactive waste or isotopes in an amount greater than recommended by local or State public health agencies.
l. Any sludges, solids, or residues from the pretreatment of industrial wastes.
m. No user shall increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation.
n. Any waters or wastes containing insecticides, strong oxidizing agents or strong reducing agents.
o. Any wastes containing excessive detergents, surface active agents, or other substances which may cause excessive foaming in POTW.
p. Any waste producing excessive discoloration of wastewater or treatment plant effluent.
q. Any water or wastes containing recognizable portions of the human anatomy.
r. Any water or waste containing substances which are not amenable to treatment or which cause the treatment plant effluent to fail to meet the discharge requirements established by the State Water Resources Control Board, the California Regional Water Quality Board or any other State or regulatory agency.
s. Any discharge of wastewater, industrial waste, commercial waste, or other polluted waters into any storm drain or natural outlet.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-407 - Local Limits.

The following pollutant local limits are established to protect against pass through and interference. No SIU shall discharge or cause to discharge any wastewater containing in excess of the follow daily maximum allowable discharge limits. In addition, the General Manager may apply all or some of the limits set forth below to other users as the General Manager deems appropriate and designates in the user's Wastewater Discharge Permit.

These local limits apply to all SIUs or other users deemed by the General Manager discharging to the POTW whether or not they are subject to National Categorical Pretreatment Standards or any other Federal, State, or local pretreatment standards or requirements. These local limits do not relieve the user from being required to meet any applicable National Categorical Pretreatment Standards or any other Federal, State, or local pretreatment standards or requirements.

Toxicants	Maximum Allowable Concentration (mg/l)
Aluminum	5.0
Total Kjeldahl Nitrogen (as Ammonia)	2,600

Antimony	5.0
Arsenic	0.5
Barium	5.0
Beryllium	1.0
Biochemical Oxygen Demand (BOD)	20,000
Boron	1.0
Cadmium	0.02
Total chlorinated hydrocarbons	0.002 (trace)
Chromium (total)	0.01
Cobalt	0.5
Copper	0.5
Cyanide (total)	0.2
Total Dissolved Solids (TDS)	5,000
Fluorides	2.0
Formaldehydes	5.0
Iron	5.0
Lead	0.5
Manganese	1.0
Mercury	0.001
Total Oil and Grease (non-floatable grease, oil, fat, ether-soluble matter other than soap)	500
Total Petroleum Hydrocarbons (floatable grease, oil, fat, ether-soluble matter)	50
Phenol and derivatives	0.5
Nickel	0.2
Selenium	5.0
Silver	0.05
Total Suspended Solids (TSS)	10,000
Total Toxic Organics (TTO)**	2.13
Zinc	1.0
** Federal Register List from 40 CFR 131 Subpart D – Total Toxic Organics less pesticides and dioxins	

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-410 - Wastewater Sampling.

Periodic measurements of flow rates, flow volume, BOD, grease, TSS, TDS, and Total Kjeldahl Nitrogen, for use in determining the annual industrial wastewater treatment surcharge and such measurements of other constituents believed necessary for the District shall be made by all industrial wastewater dischargers, unless specifically relieved of such obligation by the District. All sampling, analyses and flow measurements of industrial wastewaters shall be performed by a State certified independent laboratory or by a laboratory of the industrial discharger approved by the District. If performed by District's personnel, an appropriate charge shall be paid by the discharger requesting the tests. Prior to submittal to the District of data developed in the laboratory of an industrial discharger, the results shall be verified by a responsible administrative official of the industrial discharger under the penalty of perjury.

All wastewater analyses shall be conducted in accordance with the appropriate procedure contained in 40 CFR Part 136, or as amended. If no appropriate procedure is contained therein, the standard procedure of the industry or a procedure judged satisfactory by the District Engineer shall be used to measure wastewater constituents. Any independent laboratory or discharger performing tests shall furnish any required test data or information on the test methods or equipment used, if requested to do so by the District.

All dischargers making periodic measurements shall furnish and install at the control manhole or other appropriate location a calibrated flume, weir, flow meter, or similar device approved by the District and suitable to measure the industrial wastewater flow rate and total volume. A flow indicating, recording and totalizing register may be required by the District. In lieu of wastewater flow measurements, the District may accept records of water usage and adjust the flow volumes by suitable factors to determine peak and average flow rates for the specific industrial wastewater discharge.

The sampling, analysis and flow measurement procedures, equipment and results shall be subject at any time to inspection by the District. Sampling and flow measurement facilities shall be such as to provide safe access

to authorized personnel. Records of sampling shall be maintained for a period of three (3) years.

Those industrial wastewater dischargers required by the District to make periodic measurements of industrial wastewater flows and constituents shall annually make the minimum number of such measurements required. The minimum requirement for such period measurements shall be at least one (1) twenty-four (24) hour measurement per year. Representative samples of the industrial wastewater shall be obtained every fifteen (15) minutes over the twenty-four (24) hour period, properly refrigerated, composited according to measured flow rates during the twenty-four (24) hours and analyzed for the specific wastewater constituents. Discharges required to sample on only a few days per year shall sample during the period of highest wastewater flow and wastewater constituent discharges. Industrial plants with large fluctuations in quantity or quality of wastewater may be required to provide continuous sampling and analyses for every working day. When required by the District, dischargers shall install and maintain in proper order, automatic flow-proportional sampling equipment and/or automatic analysis and recording equipment.

Measurements to verify the quantities of waste flows and waste constituents reported by industrial dischargers will be conducted on a random basis by personnel of the District.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-411 - Pretreatment of Wastewaters.

A wastewater pretreatment system or device may be required by the District Engineer to treat flow prior to discharge to the sewer when it is necessary to restrict or prevent the discharge to the sewer of certain waste constituents not in compliance with Section 12-4-406 Prohibited Wastes, to distribute more equally over a longer time period any peak discharges of wastewaters or to accomplish any pretreatment result required by the District. All pretreatment systems, devices, or equipment shall be approved by the District but such approval shall not absolve the discharger of the responsibility of meeting any effluent limitation required by the District. All pretreatment systems, devices, or equipment judged by the District to require engineering design shall have plans prepared and signed by an engineer of suitable discipline licensed in the State of California, and shall achieve compliance with all categorical pretreatment standards, local limits, and prohibitions specified by the EPA, the State of California, or the District, whichever is most stringent.

This chapter refers to and enforces the pretreatment standards published in the Federal Register by the EPA pursuant to Section 107(b) of the Federal Water Pollution Control Act Amendments of 1972.

Normally, a gravity separation interceptor, equalizing tank, neutralization chamber and control manhole will be required, respectively, to remove prohibited settleable and floatable solids, to equalize wastewater streams varying greatly in quantity and/or quality, to neutralize low or high pH flow and to facilitate inspection, flow measurement and sampling.

All floor drains located in process areas shall discharge to the user's pretreatment system prior to any connection to the POTW, as deemed necessary by the District Engineer.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-412 - Grease Removal Devices.

Grease, oil, and sand interceptors or other grease removal device shall be provided by the waste discharger when, in the opinion of the District, they are necessary for the proper handling of wastewater containing excessive amounts of grease and oil, or sand; except that such interceptors shall not be required for residential users. All interception units shall be of type and capacity acceptable to the District and shall be so located to be easily accessible for cleaning and inspection. Such interceptors shall be inspected, cleaned, and repaired regularly, as needed, by the user at their expense. The user shall keep and maintain records that document all cleaning, repair and proper disposal from all such interceptors for the preceding three (3) years. Such records shall be kept on the site for review by the District.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-413 - Amalgam Separators.

The District Engineer may specify additional requirements for dental facilities that remove or place amalgam fillings.

a. All users of and dischargers from dental facilities that remove or place amalgam fillings shall comply

with the following waste management practices:

1. No person shall rinse chair-side traps, vacuum screens, or amalgam separator equipment in a sink or other connection to the sanitary sewer.
2. Users of and dischargers from dental facilities shall ensure that all staff members who handle amalgam waste are trained in the proper handling, management, and disposal of mercury-containing material and fixer-containing solutions, and shall maintain training records that shall be available for inspection by the District Engineer during normal business hours.
3. Amalgam waste shall be stored and managed in accordance with the instructions of the recycler or hauler of such materials.
4. Bleach and other chlorine-containing disinfectants shall not be used to disinfect the vacuum line system.
5. The use of bulk mercury is prohibited. Only pre-capsulated dental amalgam is permitted.

b. All users of and dischargers from dental vacuum suction systems, except as set forth in paragraphs c. and d., below, shall comply with the following:
   1. An ISO 11143 certified amalgam separator device shall be installed for each dental vacuum suction system on or before one (1) year of the effective date of this title provided, however, that all dental facilities that are newly constructed on and after the effective date of this title shall include an installed ISO 11143 certified amalgam separator device. The installed device must be ISO 11143 certified as capable of removing a minimum of ninety-five percent (95%) of amalgam. The amalgam separator system shall be certified at flow rates comparable to the flow rate of the actual vacuum suction system operation. Neither the separator device nor the related plumbing shall include an automatic flow bypass. For facilities that require an amalgam separator that exceeds the practical capacity of ISO 11143 test methodology, a noncertified separator will be accepted, provided that smaller units from the same manufacturer and of the same technology are ISO-certified. Alternative materials and methods may be proposed to the District Engineer for approval.
   2. Proof of certification and installation records shall be submitted to the District Engineer within thirty (30) days of installation.
   3. Amalgam separators shall be maintained in accordance with manufacturer's recommendations. Installation, certification, and maintenance records shall be available for immediate inspection upon request by the District Engineer during normal business hours.

c. Facilities with vacuum suction systems that meet all of the following conditions may apply to the District Engineer for an exemption to the requirements of paragraph b., above:
   1. The system was installed before the effective date of this title.
   2. The system is a dry vacuum pump system with an air-water separator.
   3. The sedimentation tank is non-bottom draining, with the drain above the anticipated maximum level of accumulated sludge.
   4. Evidence of regular pump outs (a minimum of once a year, or more often if either directed by the manufacturer or necessary to keep solids from exiting through the drain) is maintained and open to inspection by the District Engineer during normal business hours.
   5. The system has no direct discharge pipe to the sewer on the bottom of the sedimentation tank.

d. The following types of dental practice are exempt from this section, provided that removal or placement of amalgam fillings occurs at the facility no more than three (3) days per year: orthodontics, periodontics, oral and maxillofacial surgery, radiology, oral pathology or oral medicine, and endodontistry and prosthodontistry.

e. Any user or discharger whose facility meets all five conditions in paragraph c., above, may apply for an exemption by written letter to the District Engineer. The District Engineer will review the system and, if the exemption is approved, shall provide a written letter of exemption. An exemption obtained pursuant to paragraph c. of this section shall expire upon installation of a new vacuum system. Upon expiration of the exemption, the facility shall comply with paragraph b. of this section before commencing further operation.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-415 - Accidental Discharges.

In the case of any discharge including, but not limited to, accidental discharges, discharges of a nonroutine or episodic nature, a noncustomary batch discharge or a slug load which may cause potential problems for the POTW (including a violation of the prohibited discharge standards of this title), it is the responsibility of the user to immediately notify the District Engineer of the incident. This notification shall include the location of discharge, type of waste, concentration and volume (if known), and corrective actions taken by the user.

Within five (5) days following an accidental discharge, the user shall, unless waived by the District Engineer, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the user to prevent similar or future occurrences. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage to the system, natural resources, or any other damage

to persons or property. Nor shall such notification relieve the user of any fines, civil penalties, or other liability which may be imposed by this title.

Failure to notify the District of potential problem discharges shall be deemed a violation of this title.

Sewer connections within the discharger's plumbing or drainage system shall be appropriately labeled to warn operating personnel against discharge of any substance in violation of this article.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-420 - Right of Entry.

The duly authorized employees of the District, or authorized agents, bearing proper credentials and identification, shall be permitted, announced or unannounced, to enter all properties served by the District for the purposes of inspection, observation, measurement, sampling, testing, reviewing records, and copying records in accordance with the provisions of this ordinance. Unreasonable delays in allowing the authorized employees access to the user's premises shall be a violation of this title.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-425 - Damage Caused by Prohibited Wastewater Discharge.

Any industrial wastewater discharger who discharges or causes the discharge of prohibited wastewaters which cause damage to District facilities, detrimental effects on treatment processes or any other damages resulting in costs to the District shall be liable for all damage occasioned thereby.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-440 - Reports of Changed Discharges.

Each user shall notify the District Engineer of any planned significant changes to the user's operations or system which might alter the nature, quality, or volume of its wastewater at least sixty (60) days before the change.

a. The District Engineer may require the user to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a Wastewater Discharge Permit application as required by this title.
b. The District Engineer may issue a Wastewater Discharge Permit as required by this title or modify an existing Wastewater Discharge Permit.
c. No user shall implement the planned changed condition(s) until or unless the District Engineer has responded to the user's notice.
d. For purposes of this requirement, flow increases of twenty percent (20%) or greater, and the discharge of any previously unreported pollutants, shall be deemed significant.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-456 - Reporting Requirements.

a. Baseline Monitoring Reports. All Significant Industrial Users shall submit to the District a baseline report within one-hundred eighty (180) days of the effective date of this section or one-hundred eighty (180) days after final administrative decision on a category determination, whichever is earlier. The baseline report shall contain the information specified in 40 CFR Part 403.12(b) or as amended. The information required for application for a permit and/or modification of a permit may fulfill the requirements of the baseline report. If in submitting information to apply for or to modify a permit, the Significant Industrial User also intends to fulfill the requirements for the baseline report, the Significant Industrial User shall so state.
b. Compliance Schedule Progress Reports. The Significant Industrial User shall submit a progress report to the District Engineer no later than fourteen (14) days following each date in the schedule and the final date of compliance including, as a minimum, whether or not it complied with the increment of progress, the reason for any delay, and, if appropriate, the steps being taken by the user to return to the established schedule.
c. Reports on Compliance with Categorical Pretreatment Standard Deadline. Within ninety (90) days

following the date for final compliance with applicable categorical pretreatment standards, or in the case of a new source following commencement of the introduction of wastewater into the POTW, any user subject to such pretreatment standards and requirements will submit to the District Engineer a report indicating the nature and concentration of all pollutants in the discharge from the regulated process which are limited by pretreatment standards or requirements, the average and maximum daily flow for these process units, and the actual average production rate for these process units. For users subject to equivalent mass or concentration limits established in accordance with the procedures in 40 CFR Part 403.6(c) or as amended, this report will contain a reasonable measure of the user's long term production rate. The report shall state whether the applicable pretreatment standards or requirements are being met on a consistent basis and, if not, what additional operational and maintenance changes and/or pretreatment is necessary to bring the user into compliance with the applicable pretreatment standards or requirements. This statement shall be signed by an authorized representative of the industrial user and a certified qualified professional. Filing of this compliance report cannot relieve the user of any fines, civil penalties, or other liability which may be imposed by this title or other applicable law, or failure to meet the applicable pretreatment standards or requirements subsequent to the date for final compliance with such applicable standard.

d. Periodic Compliance Reports.

1. All Significant Industrial Users shall, at a frequency determined by the District Engineer, submit a report indicating the nature and concentration of pollutants in the discharge which are limited by pretreatment standards or requirements and the measured or estimated average and maximum daily flows for the reporting period. All periodic compliance reports shall be signed and certified in accordance with 40 CFR Part 403.6(a)(2)(ii) or as amended. The report shall contain a description of the methods utilized by the user in collecting the wastewater sample for analysis, including but not limited to the sampling device(s) used, the sampling period, the amount of each sample collected, sample handling and preservation techniques used, and date of sample delivery to the laboratory for analysis.
2. All wastewater samples must be representative of the Significant Industrial User's discharge. Wastewater monitoring and flow measurement facilities will be properly operated, cleaned, calibrated, and maintained in good working order at all times. The failure of a user to keep its monitoring facility in good working order is a violation and shall not be grounds for the user to claim that sample results are unrepresentative of its discharge.
3. If a Significant Industrial User, subject to the reporting requirement in this section, monitors any pollutant more frequently than required by the District Engineer, using the procedures prescribed in this title, the results of this monitoring will be included in the report.
4. In the event a sample from a periodic compliance report indicates that a constituent is in violation of the allowable concentration levels as set forth in the user's permit or permit contract, the user shall inform the District within the next business day, repeat the sampling and pollutant analysis for the parameter in violation, and submit in writing the results of this second analysis within thirty (30) days of the discovery of the first violation. The initial sampling and analysis report shall be submitted within forty-five (45) days of the initial sampling date with a cover report setting forth the causes of the violation, the remedial actions taken to date with regard to the violation, and the scheduled additional actions which will be implemented to prevent a recurrence.
5. The District Engineer may also, at any time, require a signed statement by the user setting forth management practices and/or material usage practices which have an effect on the nature, volume, and quality of the wastewater discharge and/or which potentially will affect the ability to comply with pretreatment standard requirements.
6. When required by the District Engineer, an industrial user shall submit a report indicating the concentration of specific pollutants discharged in the effluent. The determination of said pollutants by the District Engineer shall be based on what is reasonably expected to be found at the site and the frequency of monitoring shall be based on the compliance status of the industrial user.
7. Periodic Compliance Reports may be waived by the District Engineer if the District is monitoring the user discharge.
8. The District Engineer may require all users either independently, or as part of an application, to submit a certification statement reviewed by an authorized representative of the user and certified by a qualified professional indicating whether or not the pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance and/or additional pretreatment is necessary for the user to meet pretreatment standards and requirements. [40 CFR Part 403.12(b)(6)]

e. Reports from Unpermitted Users. All users not required to obtain a Wastewater Discharge Permit shall provide appropriate reports to the District Engineer if required by the District Engineer.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-460 - Civil Penalties.

a. When the District Engineer finds that a user has violated, or continues to violate, any provision of this title, a Wastewater Discharge Permit or order issued hereunder, or any other pretreatment standard or requirement, the District Engineer may fine such user in an amount not to exceed twenty-five thousand dollars ($25,000.00) per violation per day. In addition, pursuant to the authority of California Government Code Sections 54739 to 54740.6, the District may issue administrative complaints, conduct administrative hearings, and/or impose civil penalties in accordance with the procedures set forth in these sections for violation of the District's requirements set forth in this title. The amount of any civil penalties imposed under this section which have remained delinquent for a period of sixty (60) days shall constitute a lien against the real property of the discharger from which the discharge originated resulting in the imposition of the civil penalty. [California Government Code 54740 and 54740.5]

b. Unpaid charges, fines, and penalties shall, after thirty (30) calendar days, be assessed an additional penalty of the unpaid balance, and interest shall accrue thereafter. A lien against the user's property may be sought for unpaid charges, fines, and penalties.

c. Users desiring to dispute such fines must file a written request for the District Engineer to reconsider the fine along with full payment of the fine amount within ten (10) days of being notified of the fine. Where the District Engineer believes a request has merit, the District Engineer may convene a hearing on the matter within fifteen (15) days after receiving the request from the user. The District Engineer may add the costs of preparing administrative enforcement actions, such as notices and orders to assess the fine. In the event the user's appeal is successful, the payment, together with any interest accruing thereto, shall be returned to the user.

d. Issuance of an administrative fine shall not be a bar against, or a prerequisite for, taking any other action against the user.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-461 - Injunctive Relief.

When the District Engineer finds that a user has violated, or continues to violate, any provision of this title, a Wastewater Discharge Permit, or order issued hereunder, or any other pretreatment standard or requirement, the District Engineer may seek the issuance of a temporary or permanent injunction, as appropriate, to restrain or compel the specific performance of the Wastewater Discharge Permit, order, or other requirement imposed by this title on activities of the user. The District Engineer may also seek such other action as is appropriate for legal and/or equitable relief, including a requirement for the user to conduct environmental remediation. A petition for injunctive relief shall not be a bar against, or a prerequisite for, taking any other action against a user. [California Government Code 54740]

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-462 - Search/Inspection Warrants.

a. If the District Engineer has been refused access to a building, structure or property or any part thereof, and if the District Engineer has probable cause to believe that there may be a violation of District ordinance or that there is a need to inspect or sample as part of a routine inspection/sampling program of the District designed to verify compliance with District ordinance or any permit or order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the District Engineer may seek issuance of a search, seizure, or inspection warrant. In the event of an emergency affecting public health and safety, or if the user consents, inspections shall be made without the issuance of a warrant.

b. To the extent that the owner or possessor of the premises requires that a warrant be received, the District may, in its discretion, suspend the permit and/or any other right to discharge to sanitary facilities immediately, and such suspension may continue until such time as a warrant has been received and the inspection has been completed. If no violation of this title or the permit, if applicable, is found, the suspension shall be lifted. In the event that violations of this title or the permit, if applicable, are found, then the suspension may, at the discretion of the District, be continued or terminated, or other enforcement remedies may be sought.

c. The District may choose to inspect the facility to determine compliance with all standards as set forth in this title or permit if applicable, and additionally, such inspections may be undertaken to verify the wastewater flows and strengths reported by the discharger.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-470 - Emergency Suspensions of Discharge.

The District Engineer may immediately suspend a user's discharge, after informal notice to the user, whenever such suspension is necessary to stop an actual or threatened discharge which reasonably appears to present or cause an imminent or substantial endangerment to the health or welfare of persons. The District Engineer may also immediately suspend a user's discharge, after notice and opportunity to respond, that threatens to interfere with the operation of the POTW, or which presents, or may present, an endangerment to the environment.

a. Any user notified of a suspension of its discharge shall immediately stop or eliminate its discharge. In the event of a user's failure to immediately comply voluntarily with the suspension order, the District Engineer may take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW, its receiving stream, or endangerment to any individuals. The District Engineer may allow the user to recommence its discharge when the user has demonstrated to the satisfaction of the District Engineer that the period of endangerment has passed, unless the termination proceedings in Section 12-4-351 are initiated against the user.

b. A user that is responsible, in whole or in part, for any discharge presenting imminent endangerment shall submit a detailed written statement, describing the causes of the harmful contribution and the measures taken to prevent any future occurrence, to the District Engineer prior to the date of any show cause hearing.

c. After reasonably attempting to informally notify the user, the District may take all necessary steps to halt or prevent such discharge including, but not limited to plugging or physically disconnecting the user's access to the District POTW.

d. Nothing in this section shall be interpreted as requiring a hearing prior to any emergency suspension under this section.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-472 - Vandalism and Tampering.

No person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface, or tamper with any monitoring equipment so as to cause alteration of the sampling analysis or readings or cause damage or destruction of equipment being utilized to determine compliance with this title. Tampering with a District-installed meter may be subject to fines in accordance with this title.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-474 - Confidential Information.

Information and data on a user obtained from reports, surveys, Wastewater Discharge Permit applications, Wastewater Discharge Permits, and monitoring programs, and from the District Engineer's inspection and sampling activities, shall be available to the public without restriction, unless the user specifically requests in writing, and is able to demonstrate to the satisfaction of the District Engineer, that the release of such information would divulge information, processes, or methods of production entitled to protection as trade secrets or that are proprietary in nature or otherwise exempt from disclosure under applicable State law. Any such request must be asserted at the time of submission of the information or data. When requested and demonstrated by the user furnishing a report that such information should be held confidential, the portions of a report which might disclose trade secrets, secret processes proprietary information, or information otherwise exempt from disclosure shall not be made available for inspection by the public but shall be made available, to the extent allowed by law, immediately upon request to governmental agencies for uses related to this title, the National Pollutant Discharge Elimination System (NPDES) program, and in enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics and other "effluent data" as defined by 40 CFR Part 2.302 or as amended, will not be recognized as confidential information and will be available to the public to the extent allowed by law.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-476 - Publication of Users in Noncompliance.

The District Engineer shall publish annually in accordance with 40 CFR 403 or as amended, in any paper of general circulation that provides meaningful public notice within the jurisdiction served by the POTW, a list of the users which, during the previous twelve (12) months, were in Significant Noncompliance with applicable pretreatment standards and requirements.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-478 - Notice.

Unless otherwise provided herein, any notice required to be given by the District shall be in writing and served in person or by registered or certified mail. If served by mail, the notice shall be sent to the last address known to the District. Where the address is unknown, service may be made upon the owner of record of the property involved.

Notice shall be deemed to have been given at the time of deposit, postage prepaid, in a facility serviced by the United States Postal Service.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-480 - Special Terms and Conditions.

Notwithstanding any provision of this title to the contrary, the Board and any user may enter into an agreement where unusual conditions compel special terms and conditions and charges for the interception, treatment and disposal of an industrial wastewater necessary to meet the purposes of this title. In no event, however, may the National Categorical Pretreatment Standards referred, or as amended or any other Federal or State standard, be relaxed or waived.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-482 - Connection Outside the District Boundaries.

a. The Board may, at their sole discretion approve of and, authorize a permit to connect to the District sewer for properties outside the District. Any request for such a connection outside of the District's boundaries and the Town's Urban Growth Boundary requires a public hearing and Board approval. The following guiding principles shall be considered for any such sewer connection:
   1. Annexation to the District should be considered if the property is within the Urban Growth Boundary.
   2. Without annexation, the proponent needs to explain in writing why the service should be extended to the subject property.
   3. Substantial evidence, prepared by a civil engineer and certified by the District Engineer and Sonoma County Health Department, that the extension is necessary to replace failing septic tank-leach field systems and/or water systems and the extension does not exceed that required to serve development existing onsite as of October 2, 1997. The information should also indicate that there is no other feasible way, based on physical conditions of the property, to provide the services. Evidence should show that moving the septic tank-leach field and/or drilling another well on another location on the property has been explored and is not feasible.
   4. The extension of service cannot be to properties designated as open space and cannot interfere with accepted agricultural practices.
   5. The property requesting service should be immediately adjacent to land already served by the District.
   6. An Outside Service Agreement approved by the Board is required and LAFCO approval may also be required.
   7. All costs associated with engineering, design, connection fees, construction, environmental mitigation, public services and facilities, frontage improvements, utility under grounding, and application fees are the responsibility of the proponent.
   8. To demonstrate the need for District services, the proponent will certify that the property owner occupies the dwelling and that it is the property owner's primary residence.

b. The applicant shall first enter into an agreement in writing whereby he/she shall bind himself, his/her heirs, successors and assigns to abide by all ordinances, rules and regulations in regard to the manner in which such sewer shall be used, the manner of connecting therewith, and the plumbing and drainage in connection therewith and also shall agree to pay all fees required for securing the permit; annexation, development connection fees and monthly sewer service charges in the amount set by the District for the privilege of using such sewer.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

12-4-484 - Severability.

If any provision of this title is invalidated by any court of competent jurisdiction, the remaining provision shall

not be affected and shall continue in full force and effect.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

Windsor, California, Code of Ordinances >> TITLE XII - WINDSOR WATER DISTRICT >> CHAPTER 4. - SEWER >> Article 5. - Definitions >>

Article 5. - Definitions

12-4-500 - Definitions.

12-4-500 - Definitions.

As used in this chapter:

Act shall mean Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 USC 1251, et seq., or as amended.

Applicant shall mean the person or his/her authorized agent making application for a permit for a sewer or plumbing installation and shall be the owner of premises to be served by the sewer for which a permit is requested.

Batch discharges shall mean intentional, controllable discharges that occur periodically within an industrial user's process (typically the result of a noncontinuous process).

Board shall mean the Board of Directors of the Windsor Water District.

BOD or biochemical oxygen demand shall mean the measure of decomposable organic material in domestic or industrial wastewaters as represented by the oxygen utilized over a period of five (5) days at twenty (20) degrees Centigrade and as determined by the appropriate procedure in 40 CFR Part 136, or as amended."

Bypass shall mean the intentional diversion of wastestreams from any portion of a user's treatment facility.

Building shall mean any structure used for human habitation, business or commercial activity, industry, recreation, public use or other purpose containing sanitary facilities.

Chlorine demand shall mean the difference between the amount of chlorine added to a wastewater sample and the amount remaining at the end of a thirty (30) minute period as determined by the procedures given in 40 CFR Part 136, or as amended.

COD or chemical oxygen demand shall mean the measure of chemically decomposable material in domestic or industrial wastewater as represented by the oxygen utilized as determined by the appropriate procedure described in 40 CFR Part 136, or as amended.

Contractor shall mean an individual, firm, corporation, partnership or association duly licensed by the State of California to perform the type of work to be done under this permit.

Discharger is synonymous with User.

District shall mean the Windsor Water District.

District Engineer shall mean the Windsor Town Engineer.

Domestic wastewater shall mean the water carried wastes produced from nonindustrial activities and which result from normal human living processes.

Dwelling unit shall mean any single-family dwelling of one (1) or more rooms having one (1) or more plumbing fixtures suitable for residential occupancy by any number of persons living together as a single family, including single-family dwelling units and each group of rooms constituting a dwelling unit for a single-family in any multiple dwelling structure.

Effluent shall mean the liquid outflow of any facility designed to treat, convey or retain wastewater.

Existing source shall mean any source of discharge, the construction or operation of which commenced prior to the publication by EPA of proposed categorical pretreatment standards under Section 307 (b) and (c) of

the Act or as amended which will be applicable to such source if the standard is thereafter promulgated in accordance with Section 307 of the Act or as amended.

Family shall mean any one (1) or more persons comprising a single-family unit.

Formula shall mean the Industrial Wastewater Treatment Surcharge Formula.

Garbage shall mean or include kitchen and table refuse, offal, swill and every accumulation of animal, vegetable and other matter that attends the preparation, consumption, decay or dealing in the storage of meats, fish, birds, fruits or vegetables and all broken or discarded crockery, bottles and tin vessels. Dead animals, swill, offal and other solvable waste matter having a value shall not be included within the meaning of the word garbage.

General Manager shall mean the General Manager of Windsor Water District or his/her duly authorized deputy or agent.

Gravity separation interceptor shall mean any facility designed, constructed and operated for the purpose of removing and retaining dangerous, deleterious or prohibited constituents from wastewater by differential gravity separation before discharge to the public sewer.

Grease removal devices shall mean a grease interceptor designed to intercept, trap, or otherwise prevent grease, sand, flammable liquids, or other substances potentially harmful to the POTW from entering.

Industrial connection sewer shall mean the sewer connecting the building sewer or building waste drainage system to the public sewer for the purpose of conveying industrial wastewater.

Industrial owner shall mean any owner on whose premises any manufacturing or processing activity for profit is engaged in, including the manufacturing or processing of agricultural products, animals, poultry, goods, wares or other products or materials.

Industrial user shall mean all nonresidential users and Significant Industrial Users.

Industrial wastewater shall mean all water carried wastes and wastewater of the community excluding domestic wastewater and uncontaminated water, and shall include all wastewater from any producing, manufacturing, processing, institutional, commercial, agricultural or other operation where the wastewater discharged includes significant quantities of wastes of nonhuman origin.

Inspector shall mean a person authorized by the District to inspect wastewater generation, conveyance, processing and disposal facilities.

Interference shall mean a discharge, which, alone or in conjunction with a discharge or discharges from other sources, both:

a. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use, or disposal; and
b. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sludge use or disposal in compliance with statutory provisions, regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Act or as amended; the Solid Waste Disposal Act (SWDA) or as amended, including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA) or as amended, and including regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA or as amended; the Clean Air Act or as amended; the Toxic Substances Control Act or as amended, and the Marine Protection, Research and Sanctuaries Act or as amended.

Lateral sewer shall mean the sewer from the main sewer to the property line.

Local limits shall mean the technically and/or literature-based limits of pollutants, expressed as either concentration or as mass, set by the District. Local limits do not relieve a user from being required to meet National Categorical Pretreatment Standards or any other Federal, State, or local pretreatment standards or requirements.

Main sewer shall mean a public sewer designed to accommodate more than one (1) lateral sewer.

Multiple lodging structure shall mean any two (2) or more lodging units in any single building or structure or group of buildings or structures, including any rooming house, hotel or motel, bed and breakfast.

National Pollutant Discharge Elimination System (NPDES) shall mean the system established pursuant to Section 402 of the Clean Water Act.

National Pretreatment Standard or National Categorical Pretreatment Standard shall mean any regulation

containing pollutant discharge limits promulgated by the EPA in accordance with Section 307 (b) and (c), or as amended, of the Act, which applies to industrial users. This term includes prohibitive discharge limits established pursuant to 40 CFR, Part 403.5, or as amended.

New source shall mean:

a. any building, structure, facility, improvement or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under 307(c), or as amended, of the Act, which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:
   1. The building, structure, facility, improvement or installation is constructed at a site or on a lot at which no other source is located; or
   2. The building, structure, facility, improvement or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
   3. The production or wastewater generating processes of the building, structure, facility, improvement or installation are substantially independent of an existing source at the same site or lot. The General Manager shall determine whether the production or wastewater generating processes are substantially independent, taking into account these factors as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source.

b. Construction on a site at which an existing source is located resulting in a modification of said source if the construction does not create a new building, structure, facility, improvement or installation but otherwise alters, replaces, or adds to existing process or production equipment.

c. Construction of a new source as defined under this section has commenced if the applicant, user or customer has:
   1. Begun, or caused to begin as part of a continuous onsite construction program:
      (a) Any placement, assembly, or installation of facilities, improvement or equipment; or
      (b) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, improvements or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
   2. Entered into a binding contractual obligation for the purchase of facilities or equipment which is intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this subsection.

Nonresidential user shall mean users whose premises are primarily for nonresidential activity but excluding premises of Significant Industrial Users. Incidental residential use is not precluded.

Ordinance shall mean, unless otherwise specified, the Sewer Use Ordinance.

Outside sewer shall mean a sanitary sewer beyond the District boundary and not subject to the control or jurisdiction of the District.

Pass-through shall mean any discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit or waste discharge requirements, including an increase in the magnitude or duration of a violation.

Peak flow rate shall mean the average rate at which wastewater is discharged to a public sewer during the highest thirty (30) minute flow period in the preceding twelve (12) months.

Permit shall mean any written authorization required pursuant to this or any other regulation of the District for the installation of any Public Owned Treatment Works.

Person shall mean any individual, partnership, committee, association, corporation, public agency and any other organization or group of persons, public or private.

Plant shall mean the Wastewater Treatment Plant of the District.

Public Owned Treatment Works (POTW) shall mean a treatment works as defined by Section 212, or as amended, of the Act, which is owned and/or operated by a State or municipality. This includes any devices and systems used in the collection, storage, treatment, recycling, and reclamation of the municipal wastewater or industrial wastewater of a liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW treatment plant.

Premises shall mean any lot, or any piece or parcel of land comprising two (2) or more lots or record in one (1) ownership, or any building or other structure or any part of any building or structure used or useful for human habitation or gathering or for carrying on a business or occupation or any commercial or industrial activity.

Pretreatment shall mean the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration may be obtained by physical, chemical, or biological processes, process changes or by other means, except as prohibited by 40 CFR Part 403.6 (d), or as amended.

Pretreatment requirements shall mean any substantive or procedural requirement related to pretreatment, other than a national pretreatment standard, imposed on an industrial wastewater user.

Public improvements standards shall mean the minimum standards for public works construction in the District.

Public sewer shall mean a sewer lying below a street and which is under the jurisdiction of the District or other public agencies.

Radioactive material shall mean material containing chemical elements that spontaneously change their atomic structure by emitting any particles, rays or energy forms.

Residential user shall mean users whose premises are primarily for residential purposes and have no significant producing or processing activity of a commercial, industrial or institutional nature.

Sanitary sewer shall mean a sewer which carries wastewater and to which storm, surface and groundwaters are not intentionally admitted.

Section shall mean a section of this ordinance.

Sewer shall mean a pipe or conduit for carrying wastewater.

Sewer service shall mean the service and facilities for collection, treatment and disposal of wastewater furnished or available to premises by the POTW.

Sewer system is synonymous with Publicly Owned Treatment Works (POTW).

Shall is mandatory and may is permissive.

Significant industrial user shall mean:

a. A user subject to categorical pretreatment standards under 40 CFR Part 403.6 or as amended and in any industry as defined in 40 CFR Parts 405-471 or as amended; or
b. A user that:
    1. Discharges an average of twenty-five thousand (25,000) gpd or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blowdown wastewater);
    2. Contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW; or
    3. Is designated as such by the General Manager on the basis that it has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR Part 403.8(f)(6)) or as amended.

Significant noncompliance shall mean a Significant Industrial User (or any Industrial User which violates paragraphs (c), (d), or (h) of this section) whose violations meet one (1) or more of the following criteria:

a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of wastewater measurements taken during a six (6) month period exceed the daily maximum limit or average limit for the same pollutant parameter by any amount;
b. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of wastewater measurements taken for the same pollutant parameter during a six (6) month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC criteria (TRC=1.4 for BOD, TSS, fats, oils and grease, and 1.2 for all other pollutants except pH);
c. Any other discharge violation that the General Manager believes has caused, alone or in combination with other discharges, interference or pass through, including endangering the health of POTW personnel or the general public;
d. Any discharge of pollutants that have caused imminent endangerment to the public or to the environment, or have resulted in the General Manager's exercise of its emergency authority to halt or prevent such a discharge;
e. Failure to meet, within ninety (90) days of the scheduled date, a compliance schedule milestone contained in a Industrial Wastewater Discharge Permit or enforcement order for starting construction, completing construction, or attaining final compliance;
f. Failure to provide within forty-five (45) days after the due date, any required reports, including

baseline monitoring reports, reports on compliance with categorical pretreatment standard deadlines, periodic self monitoring reports, and reports on compliance with compliance schedules;

g. Failure to accurately report noncompliance; or

h. Any other violation(s) or group of violations, including a violation of Best Management Practices, which the General Manager determines will adversely affect the operation or implementation of the local pretreatment program.

Single-family dwelling shall mean one (1) dwelling unit in a single structure.

Slug discharge shall mean a discharge capable of causing adverse impacts to the District, its workers, or the environment, or any pollutant including an oxygen-demanding pollutant released in a discharge at a flow rate and/or pollutant concentration which may cause interference with the operation of the District POTW. A slug discharge is considered to be a discharge of a nonroutine, episodic nature, induding, but not limited to, an accidental spill or a noncustomary batch discharge. Accidental spills are unintentional, largely uncontrolled discharges that may result from leaks or spills of storage containers or manufacturing processes in an area with access to floor drains.

Solid wastes shall mean the nonliquid carried wastes normally considered to be suitable for disposal with refuse at sanitary landfill refuse disposal site.

Standard methods shall mean the current edition of Standard Methods for the Examination of Water and Wastewater as published by the American Public Health Association.

Storm drain shall mean a conduit which carries storm and surface or groundwaters and drainage, but excludes wastewater and polluted industrial wastes.

Street shall mean any public highway, road, street, avenue, alley, way, easement or right-of-way in the District.

Total Dissolved Solids (TDS) shall mean the solid matter in solution in the wastewater and shall be obtained by evaporation of a sample from which all suspended matter or "nonfilterable residue" has been removed by filtration as determined by the procedures in 40 CFR Part 136, or as amended.

Total residue shall mean the material left in a vessel after evaporation of a sample of water, as determined by the appropriate procedure described in 40 CFR Part 136, or amended.

Total Suspended Solids (TSS) shall mean that portion of the "total residue," of any wastewater sample, that is retained by a filter when a sample is passed through a filter, as determined by the appropriate procedure described in 40 CFR 136, or as amended.

Trade secrets shall include, but shall not be limited to, any formula, plan, pattern, process, tool, mechanism, compound, procedure, production data or compilation of information which is not patented, which is known only to certain individuals within a commercial concern who are using it to fabricate, produce or compound an article of trade or a service having a commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it.

Trunk sewer shall mean a sewer constructed, maintained and operated by the District that conveys wastewater to the District's treatment facilities and into which lateral and collecting sewers discharge.

*Upset shall mean an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the User. An upset does not include noncompliance to the ext*ent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

Uricontaminated water shall mean any wasted water not contaminated or polluted with wastewater and which is suitable or could readily be made suitable for discharge to the District stormwater drainage system.

User shall mean any person who is owner of record, lessee, sublessee, mortgagee in possession, or responsible for property having a connection to a District sewer or for processes which contribute wastewater to a District sewer.

Wastewater shall mean the water carried wastes of the community derived from human or industrial sources including domestic wastewater and industrial wastewater. Rainwater, groundwater or drainage or uncontaminated water is not wastewater.

(Ord. No. 2010-263, Exh. A, 7-7-2010)

Exhibit B
Task Order for Remainder of Fiscal Year 2011-2012

INDUSTRIAL WASTE PROGRAM SERVICES
SCOPE OF SERVICES
Task Order Number 1 for FY 2011-2012

This Task Order Number 1 shall serve as the scope of work for anticipated services to be performed by the City of Santa Rosa (City) for the Town of Windsor (Town) and responsibilities of the Town in supporting activities during Fiscal Year 2011-2012. This Task Order has been developed in accordance with the terms of the Agreement for Industrial Waste Program Services, dated _____, 20___, and the Title 12, Chapters 3, 4, and 5 of the Town of Windsor's Municipal Code. This Task Order Number 1serves as an implementation plan for Fiscal Year 2011-2012 services, but the Town and the City may coordinate and modify, as needed, the required services for Fiscal Year 2011-2012. The not-to-exceed budget for Fiscal Year 2011-2012 is $130,000. Any modifications or changes to this Task Order shall be in writing and agreed upon by the persons as set forth in Section 8 of the Agreement for Industrial Waste Program Services, dated _____, 20___.

Task 1: Administration
The following items shall be performed under this task:

- City shall coordinate with Town to identify all industrial and/or commercial dischargers that currently have grease removal devices in place.
- The City shall coordinate with Town to identify commercial and industrial dischargers that are potential sources of copper.
- City shall perform plan check review for new grease removal device applications. City shall provide written documentation for the approval or denial of any grease removal device applications.
- City shall coordinate with Town to identify industrial or commercial dischargers that currently do not have grease traps in place, and should have installed grease removal devices.
- City and Town will coordinate to identify and inspect new industrial or commercial dischargers for the purpose of processing permit applications.
- City shall attend a total of two management meetings at Town's offices. The purpose of these meetings will be to kick-off the industrial pretreatment program and to have a progress meeting. The progress meeting will also be used to discuss and develop the task order for the next fiscal year.
- City shall provide a monthly progress report and invoice, documenting activities performed, and planned upcoming activities. City will provide Town with the progress report, copies of any permits issued, written notices/correspondence to dischargers and/or written warnings/notice of violations/non-conformances issued.
- Town shall disclose new business license lists, water service turn "on and off" lists and any materials held by the Town that would indicate new dischargers to Town's Publicly Owned Treatment Works (POTW) to City.
- Town will send out the appropriate discharge applications and track timely returns of said applications.

- Before entry into any business premised in Town, Town will provide advance written notice to all affected business owners and property owners identifying City personnel as representatives of Town.
- Town will develop and provide City with credentials that will identify City personnel as representatives of Town.
- All enforcement actions other or more formal than a "Corrective Action Notice" or a "Notice of Violation" will be conducted by Town. Upon request, City will consult with Town regarding other or more formal enforcement actions.

Task 2: Fats, Oils, and Grease (FOG)

The following items shall be performed under this task:

City shall perform plan checks, inspections on commercial and industrial dischargers with grease removal devices, issue permits, and identify any issues with grease removal device maintenance, sizing, and/or non-conformance items. All enforcement actions other or more formal than a "Corrective Action Notice" or a "Notice of Violation" will be conducted by Town. Upon request, City will consult with Town regarding other or more formal enforcement actions.

Task 3: Industrial Program

The following items shall be performed under this task:

- City shall review new industrial discharge applications. The City shall perform necessary inspections required for issuance of a permit. The City shall be responsible for following up with the applicant for additional information required, and either approving and issuing a permit, denying the permit, and/or issuing a request for additional actions to be taken prior to permit approval.

Task 4: Source Control

- Time and budget permitting (with Task 2 being the first priority for this fiscal year) City shall perform up to 6 inspections on commercial and /or industrial dischargers that were identified to be potential copper dischargers in Task 1. City shall contact the dischargers, inspect facilities, make written recommendations and/or notices on necessary improvements/actions to be taken, and as appropriate issue a discharge permit.
- All enforcement actions other or more formal than a "Corrective Action Notice" or a "Notice of Violation" will be conducted by Town. Upon request, City will consult with Town regarding other or more formal enforcement actions..

Task 5: Incident Reporting

The following items shall be performed under this task:

- City shall communicate with dischargers that have an incident of illegal discharge to the sewer system. After initially contacting the discharger, the City shall perform inspections, sampling and reporting services for discharge violations that occur.

Task 6: Sampling Support

- City shall coordinate with Town to identify sampling needs during the remainder of Fiscal Year 2010-2011, particularly with seasonal dischargers. At Town's direction, and with the City's written concurrence, City may provide sampling support for identified dischargers. Sampling support shall include but not be limited to analytical laboratory coordination, installation of samplers, collection of recommended number of samples, and delivery of sample(s) to the analytical laboratory. City shall provide the analytical laboratory reports to Town.

  It is not expected that more than 8 sites will require sampling during Fiscal Year 2011-2012.

Exhibit C
Budget/Rate Schedule

Classification	Cost/hour
Environmental Compliance Supervisor	$113.57
Environmental Compliance Inspector III	$107.31
Environmental Compliance Inspector II	$98.58
Environmental Compliance Inspector I	$86.16
Senior Administrative Assistant	$74.64
Vehicle	$24.00

Windsor Food Service Establishment Visits						
#FSE	Date	Location/Address	SIC Code	Contact Info	Grease Trap?	APP Received Date
1	3/20/2013	Skillets Café 8776 Lakewood Dr	5812006	Steve Shatnami 707-657-7599	Y	NEED
2	3/20/2013	Subway #37510 8790 Lakewood Dr		Bijay Shrestha 415-378-6950	Perform no on-site cooking	Not Required
3	3/20/2013	Papa Murphy's Pizza 8794 Lakewood Drive		Ashley Barefield 837-7300	Perform no on-site cooking; take and bake only	Not Required
4	3/20/2013	Starbuck's Coffee 8786 Lakewood Drive		Megan Sharky, Store Manager 838-9875	Perform no on-site cooking	Not Required
5	3/20/2013	Little Ceasar's Pizza 8836 Lakewood Drive		Mike Berry, Manager 838-1420	Y	NEED
6	3/20/2013	Raley's Supermarket 8852 Lakewood Drive		Mike Paulestra 838-6604	Y	NEED
7	3/20/2013	Yinkeng Chinese Restaurant 8840 Lakewood Drive		Yat Chu 838-2101	Y	5/10/2013 Scanned
8	3/20/2013	Taco Bell 8900 Brooks Road		Kathy Burris, District Manager 838-4018	Y	3/28/2013 Scanned
9	3/20/2013	Applebee's Restaurant 8931 Brooks Road		Chris Patton, Assistant Gen. Manager 836-0642	Y	9/3/2013 Scanned
10	3/20/2013	Moxie's Yogurt 8930 Brooks Road		Melissa Jinks 836-1665 or 415-999-7923	No on-site cooking	5/1/2013** Letter no permit needed Scanned
11	3/20/2013	Happy Donut 8962 Brooks Rd		Cathy Keang 838-3526	Y	4/29/2013 Scanned
12	3/20/2013	Senju Japanese Restaurant 8960 Brooks Road	5812001	Koji Kung 836-1699	share	3/25/2013 Scanned 8/14/13
13	3/20/2013	Carl's Jr. Restaurant 9000 Brooks Road		Out of Business	Y	Out of Business
14	3/20/2013	Johnny Garlic's 8988 Brooks Road		Drew Peletz, General Manager 836-8300	share	9/3/2013 Scanned
15	3/20/2013	Togo's Great Sandwiches 8936 Brroks Road		Jeff Stiles, Owner 304-0894	No on-site cooking	Not Required
16	3/21/2013	Hampton Inn 8937 Brooks Road		Scott Satterfield, General Manager 837-9355	No on-site cooking	Not Required
17	3/21/2013	Methodist Church/La Petite Academy 9451 Brooks Rd		Melanie Mederios 838-6898	Y	8/14/2013 Scanned
18	3/21/2013	Denny's Restaurant 9098 Brooks Road		Out of Business	Y	Out of Business
19	3/21/2013	Peet's Coffee 9028 Brooks Rd		Jody Westhout 687-1905	No on-site cooking	Not Required
20	3/21/2013	Safeway/Starbucks/Jamba Juice 9080 Brooks Road		Marc Romani, Store Manager 837-2000	Y	8/15/2013 Scanned
21	3/21/2013	Chancellar Place 907 Adele Drive		Jose Leon-Hernandez Steve Harms	Y	NEED
22	3/21/2013	Windsor Community Center 901 Adele Drive		Town of Windsor 838-5943	2 commercial Kitchens	NEED

Windsor Food Service Establishment Visits						
#FSE	Date	Location/Address	SIC Code	Contact Info	Grease Trap?	APP Received Date
23	3/21/2013	Huerta Gym 9291 Old Redwood Hwy, Bldg 200		Town of Windsor 838-5943	1 commercial kitchen	NEED
24	3/21/2013	Mary's Pizza Shack		Tobias Werner	Y	5/10/2013
		9010 Brooks Road		836-0900		Scanned 8/14/13 tz
25	3/21/2013	McDonald's 125 Windsor River Rd		Danny Patel 490-6551	Y	NEED
26	3/21/2013	Aztec Grill @ Chevron 9120 Old Redwood Hwy		Peter Van Alyea 799-4959	Y	5/10/2013 Scanned
27	3/21/2013	Pohley's Market 341 Windsor River Rd		John Khoury 838-2266	No on-site cooking	Not Required
28	3/21/2013	Omlette Express 150 Windsor River Road		Don or Laura Taylor 838-6920	Y	5/10/2013 Scanned
29	3/21/2013	Chinois Asian Bistro 186 Windsor River Road		Debbie Shu 838-4667	Y	5/10/2013 Scanned
30	3/21/2013	Windsor High School 8695 Windsor Road		Dan Wells, Maintenance Supervisor 837-7767	Central Kitchen for District including Windsor Middle School & Elementary Schools	NEED
31	3/26/2013	The Jaded Toad Grill & BBQ 275 Windsor River Road		Leo Tucchini or Greg Maples 838-8336	Y	NEED
32	3/26/2013	Café Noto 630 McCLelland Dr		Margret McCabe	Shared	NEED
33	3/26/2013	Saigon Bistro 610 McClelland Drive		Tony Le 836-1947	Shared	NEED
34	3/26/2013	Baskin Robbins Ice Cream 9075 Winsor Road		Dan & Nancy Wennersten 838-4872	No on-site cooking	Not Required
35	3/26/2013	Starbucks Coffee 1001 McClelland Dr		Curtis Coset 837-0432	no-onsite cooking	Not Required
36	3/26/2013	Patterson's Pub 9057 Windsor Rd		Shawn Graham 838-7821	Shared w/Tomi Thai	NEED
37	3/26/2013	KIN 740 McClelland Dr		Brad Barmore 837-7546	Shared	5/10/2013 Scanned
38	3/26/2013	Powell's Sweet Shop 720 McClelland Drive		Craig Christenson 836-0808	No on-site cooking	Not Required
39	3/26/2013	Lupe's Diner 710 McClelland Drive	5812001	Carlos Licea 836-0150	Shared	NEED
40	3/26/2013	Windsor Presbyterian Church 251 Windsor River Road		Gay Cooper 838-1566	No commercial kitchen	Not Required
41	3/26/2013	Tomi Thai Restaurant 426 Emily Rose Circle		Diana Thomawong 836-1422	Shared w/Patterson's Pub	5/23/2013 Scanned
42	3/26/2013	KC Downtown Grill 9501 Duvander Lane		Dave Culley 838-7800	Y	5/10/2013 Scanned
43	3/26/2013	Yogurt Farms 626 McClelland Drive		Todd Phillips 657-7787	No on-site cooking	5/10/2013 Scanned

Windsor Food Service Establishment Visits						
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44	3/26/2013	Himalayan Restaurant 810 McClelland Drive		Rabin Lama 838-6746	Y	3/27/2013 Scanned
45	3/27/2013	Burger King 6351 Hembree Lane		Patty Wright, Manager 838-8254	Y	8/13/2013 Scanned
46	3/27/2013	KFC/A&W Rootbeer 6610 Hembree Lane		Tupp Suvanaseng, Manager 837-8885	Y	5/10/2013 Scanned
47	3/27/2013	Quizno's Subs 5580 Hembree Lane		Lanisha Occhipi 836-1200	No on-site cooking	Not Required
48	3/27/2013	Pizza Guys 6500 Hembree Lane		Ash Hobark 836-9999	Y	7/29/2013 Scanned
49	3/27/2013	Subway #46578 6400 Hembree Lane		Bijay Shrestha, District Manager 415-378-6950	No on-site cooking	Not Required
50	3/27/2013	McDonalds 6650 Hembree Lane		Roberto Gonzales 836-7490	Y	NEED
51	3/27/2013	High Tech Burrito 6560 Hembree Lane		Charles Garmin or Clare Aguirre 585-5823	Y	7/26/2013 Scanned
52	3/27/2013	Charlie's @Windsor Golf Course 1320 19th Hole Drive		Tami Sullberg, General Manager 838-8802 ext 18	Y	8/15/2013 Scanned
53	3/27/2013	Holiday Inn Express 8865 Conde Lane		Michelle Collingsworth 837-0404	No on-site cooking	Not Required
54	3/27/2013	Windsor Bowling Ctr 8801 Conde Lane		James Pattison 837-9889	Y	5/28/2013 Scanned
55	3/27/2013	Martin's Taqueria 10333 Old Redwood Hwy		Martin Galban 480-4632	Y	NEED
56	3/27/2013	Martin's Market 10333 Old Redwood Hwy #101		Martin Galban 480-4632	Y	NEED
57	3/27/2013	Boy's & Girls Club of Windsor 9690 Brooks Road South		Kelli Swenson 499-4725	Y	NEED
58	3/27/2013	Donut Hut 8497 Old Redwood Hwy		Yang Chao 570-9260	No on-site cooking All donuts prepared off-site	NEED
59	3/27/2013	Round Table Pizza 8499 Old Redwood Hwy		Mike 838-8558	Y	5/23/2013 Scanned
60	3/27/2013	Tumbs Up Burger &Deli 8465 Old Redwood Hwy		Grace Husary 837-7433	Y	3/27/2013 Scanned
61	3/27/2013	El Favorito 8465 Old Redwood Hwy		Francisco Diaz 838-9511	Y	NEED
62	3/27/2013	UME Japanese Restaurant 8465 Old Redwood Hwy		Kelly & Chang Shu 838-9511	Y	NEED
63	3/27/2013	Panda Express#1598 6560 Hembree Lane		Olga Barajas 837-0139	Y	NEED
64	3/28/2013	Estrello's Market & Taqueria 10531 Old Redwood Hwy		Norma Zaragoza 620-0012	Y	5/10/2013
65	3/28/2013	Diana's Taqueria 8430 Old Redwood Hwy		Norma Zaragoza 620-0012	Y	5/10/2013 Scanned
66	3/28/2013	First Baptist Church 10285 Starr Road		Bob Corbet 838-3757 ext 1108	No commercial kitchen	Not Required

Windsor Food Service Establishment Visits						
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67	3/28/2013	Windsor Christian Academy		Bob Corbet 838-3757 ext 1108	No commercial kitchen or on-site cooking	Not Required
68	3/28/2013	Windsor Market #7 9025 Old Redwood Hwy		owner	Dry goods only-no application requirement	Not required
69	3/28/2013	One Stop Market 8499 Old Redwood Hwy		owner	Dry goods only-no application requirement	Not required
70	3/28/2013	Socorro's Mexican Restaurant 8819 Oakfield Lane		Carmen Vazquez 837-8263	Y	NEED
71	3/28/2013	Castaneda's Market Place 8465 Old Redwood Hwy		owner	Y	NEED
72	3/28/2013	Windsor Palm Market		owner	Dry goods only-no application requirement	Not Required
73	3/28/2013	The Zone Sports Lounge 8499 Old Redwood Hwy		Out of Business	Y	Out of Business
74	3/28/2013	Ana's Café 10333 Old Redwood Hwy		Ana Hansen 837-0680	Y	NEED
75	4/8/2013	Tierra Vegetables 399 Business Park Court #311-#313		Wayne & Leslie James 490-5855	Note: this business subleases other caters that include Adafina Culinary, & Starting from Scratch	NEED
76	4/8/2013	Quick Shop & Deli 8197 Old Redwood Hwy		Rajdeep Singh	Deli w/ no on-site cooking	Not Required
77	4/8/2013	Mary Agatha Furth Ctr. 8400 Old Redwood Hwy		Danel Cattalini 837-7620	Y	8/13/2013 Scanned
78	4/8/2013	Fast & Easy Mart 8916 Brooks Road		owner	Dry goods only-no application requirement	Not Required
79	4/8/2013	Healdsburg Toffee 132 Johnson Street		Nicole Baker 837-1527	No on-site cooking; only perform clean-up activities	5/10/2013 Scanned
80	4/8/2013	Cold Stone Creamery 6580 Hembree Lane #258		Trudy Grabenauer	No on-site cooking; only perform clean-up activities	Not Required
81	4/10/2013	Vineyard of Faith 167 Arata Lane		Lonnie Felcher, Pastor 837-8712	No commercial kitchen	Not Required
82	4/10/2013	New Song Community Church 15 Bluebird Drive		Brandon Philptt, Pastor 838-9191	No commercial kitchen	Not Required
83	4/10/2013	Wine County Treats By Lila 9080 Starr Road		owner	Residence only-no application requirement	Not Required
84	4/10/2013	Dolly's Manor 485 Jane Drive		owner	Residence only-no application requirement	Not Required
86	4/10/2013	Windsor House 890 Jensen Lane		owner	Residence only-no application requirement	Not Required
87	4/10/2013	Terene Manor 120 Savannah Way		owner	Residence only-no application requirement	Not Required

Account #	Meter #	Account Note	Account Type	Cycle Code	Account Status	Prime Customer Number	Prime Customer Name	Prime Customer Address	Prime Location Address	SIC SIU	Sub Category Potential 40 CFR Category
04-20-0200010-02	09219693	2/8/11: Received questionnaire. There is 5 businesses in this bldg (Arm Group, Scott Clower, International Contracting, Henry Mechanical, Environment control). Please see attached commercial questionnaire. ar	comm				Henry Mechanical Henry, Douglas 707-838-3311	7646 Bell Rd	PO Box 217 Forestville CA 95436	3444001	433
	4310397	Blackened Cracker							5900 Pruitt Ave, #126	3999001	433
04-20-0200012-01	09197136	The meter we show at this location is SBR's meter 09197136, which is the sam meter that St. Florian's Brewery was connected to.	comm				Avtek Manufacturing Inc. 707-837-0660	7975 Cameron Dr Bldg 500 Dom	7975 Cameron Dr Bldg 500 Dom 7975 Cameron Dr Bldg 500 Dom Windsor CA 95492	3999001	
04-20-0002822-03	00212686		comm				Multi-Contact USA 707-575-7575	100 Market ST DOM	100 Market ST Windsor, CA 95492	5063001	
02-07-0001964-03	09055059		comm				R.P. Lewis & CO/ST. Florian's Brewery SBR Development	7694 Bell Rd	7700 Bell Rd Suite A Windsor Ca 95492-9907	5094007	433
03-27-0001456-01	10241500		ind	03	a	00023637	Kendall Jackson Winery	1190 Kittyhawk Blvd Santa Rosa, CA 95403-1013	5620 Skylane Bl Dom	2084006 - Wines	>25,000 Gallon Discharge flow
04-20-0001998-01	09197180	2/2/11: Received questionnaire. This meter provides domestic water for this building. Please see attached commercial questionnaire. ar	ind	04	a	00028362	Sonoma Tile Makers	7750 Bell Rd Windsor, CA 95492-8518	975 Cameron Dr Bldg 400	3253002 - Ceramic, Tile, Floor and Wall	466
04-20-0005374-01	06150577	Permit# 05-0712 2/2/11: Received questionnaire. This meter provides domestic water for this building. Please see attached commercial questionnaire. ar	ind	04	a	00033026	Sonoma Tile Makers	7981 Cameron Dr Windsor, CA 95492	7750 Bell Road	3253002 - Ceramic, Tile, Floor and Wall	466
04-20-0200017-03	19119446	2/2/11: Received questionnaire. This meter provides domestic water for this building. Please see attached commercial questionnaire. ar	ind	04	a	00034304	Sonoma Tile Makers	7750 Bell Rd Windsor, CA 95492-851	7890 Bell Rd	3253002 - Ceramic, Tile, Floor and Wall	466
04-20-0200045-01	09197170	2/2/11: Received questionnaire. This meter provides domestic water for this building. Please see attached commercial questionnaire. ar	ind	04	a	00029001	Sonoma Tile Makers	7750 Bell Rd Windsor, CA 95492-851	7750 Bell Rd 1	3253002 - Ceramic, Tile, Floor and Wall	466
	10242845	Pacific Bracing Company							610 Caletti Ave	3429006 - Brackets, Iron and Steel	433
	10242845	Quality Stainless Steel Tanks							510 Caletti Ave	3443099 - Tanks, Standard and Custom Fabricated: Metal Plate/Made in Boiler Shops	433
04-20-0000453-01	09197139	3/14/2011: From website: In 1988, Micro-Vu moved to a Windsor, California, in the heart of Northern California's wine country. The 40,000 square foot facility contains sophisticated design and manufacturing operations. JT Received questionnaire. Business is open M-F. There are 50 FT employees and 5 PT employees. This meter provides domestic water to this bldg. Please see attached commercial questionnaire. ar	ind	04	a	00028293	Micro-Vu Corporation	7909 Conde Ln Windsor, CA 95492-9779	7909 Conde Ln	3823001 - Industrial Instruments for measurement, display, and control of process variables	433 469
04-20-0001881-02	09197140	3/14/2011: From website: In 1988, Micro-Vu moved to a Windsor, California, in the heart of Northern California's wine country. The 40,000 square foot facility contains sophisticated design and manufacturing operations. JT Received questionnaire. Business is open M-F. There are 20 FT employees and 3 PT employees. This meter provides domestic water to this bldg. Please see attached commercial questionnaire. ar	ind	04	a	00028351	Micro-Vu Corp	7909 Conde Ln Windsor, CA 95492-9779	7923 Conde Ln	3823001 - Industrial Instruments for measurement, display, and control of process variables	433 469
01-08-0003176-01	01020804	PO2-0255	ind	01	a	00000101	Satellite Dialysis	300 Santana Row #3 San Jose, CA 95128-2018	8911 Lakewood Dr #16		
03-23-0003857-02	03049039	1/27/11: Received commercial questionnaire. The meter for this acct is just for this business. No other business share this meter. Please see attached questionnaire. ar	ind	03	a	00031847	La Tortilla Factory	3300 Westwind Blvd Dom Santa Rosa, CA 95403	3300 Westwind Blvd Dom		
03-23-0005429-02	06102327	10/17/07: Denise Gaul is the contact: (707) 236-1192. JT	ind	03	a	00033499	M. A. Silva Corks Llc	3433 WESTWIND BLVD IRRG SANTA ROSA CA 95403	3433 Westwind Blvd Dom 2		

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03-27-0001846-01	97074339		ind	03	a	00023643	Kendall Jackson Winery	1190 Kittyhawk Blvd Santa Rosa, CA 95403-1013	1180 Kittyhawk Blvd Dom		
03-27-0002136-01	98749610		ind	03	a	00023650	Kendall Jackson	1190 Kittyhawk Blvd Santa Rosa, CA 95403-1013	1170 Kittyhawk Blvd		
03-27-0002235-01	98749907		ind	03	a	00023662	Kendall Jackson Winery	1190 Kittyhawk Blvd Santa Rosa, CA 95403-1013	1150 Kittyhawk Blvd Dom		
03-27-0004064-03	04310397	3/17/2011: From web page: Standard Structures Inc. is a marketer and manufacturer of Engineered Wood Products (EWP) produced for the commercial and multi-family construction market. JT	ind	03	a	00040474	Richard Caletti	1220 McDonald Ave Santa Rosa, CA 95407	5900 Pruitt Ave Dom		
03-27-0220002-02	10242845	2/14/11: Received questionnaire. This meter provides domestic water to this bldg. There are 8 businesses in this bldg. (West Coast Metals, Quality Stainless, Best Trucking, Pacific Bracing, Mobile Mini, MLC Recycling, Empire Tree). Please see attached questionnaire. ar	ind	03	a	00023755	Shiloh Road Llc	PO Box 9101 Billbox # 02-8965-585 Addison, TX 75001-9101	5900 Pruitt Ave		
03-27-0220003-02	10242322		ind	03	a	00040470	Shiloh Oaks Co. Llc	5895 Pruitt Ave Windsor, CA 95492	5900 Pruitt Ave Dom		
04-20-0001879-01	09200065		ind	04	a	00031696	Medtronic-Santa Rosa	PO Box 209 Excelsior, MN 55331	7975 Cameron Dr Bldg 200		
04-20-0002996-01	00210738	1/31/11:Received questionnaire. This meter provides water for just this business. Please see attached commercial questionnaire. ar - NAICS code: 339999. JT	ind	04	a	00028652	Nieco Corporation	7950 Cameron Dr Windsor, CA 95492	7950 Cameron Dr Dom		
04-20-0005705-01	04178156	Billing Office Manager: Billie Cole (billie@dumol.com) CEO Kerry - (kerry@dumol.com) Winery contact are Andy Smith and Julie Cooper her contact info is 812-4092 - Andy's is listed under cell ph# is csmtr info. 02/23/09: Per Michael Verlander, ok to discuss details of this account with Patrick Imbimbo. JT	ind	04	a	00037181	Dumol Winery	11 El Sereno Orinda, CA 95463	1400 American Way Dom		
04-20-0005796-02	11011624	***Per Kevin L gave Temp Occupancy. Ok to start service*** ar 4/14/11	ind	04	a	00040042	Marcasin Wine Company LLC	995 Vintage Ave Ste#204 St. Helena, CA 94574	7331 Conde Ln		
04-20-0200150-02	19611211	1/27/11: Received questionnaire today. This meter services domestic and irrigation water for this bldg only. Please see attached commercial questionnaire. ar Two backflow devices for this meter. One is for the irrg and the other is for the domestic. 8/23/11 JLA	ind	04	a	00029261	Vinquiry Inc.	7795 Bell Rd Windsor, CA 95492-9760	7795 Bell Rd Com Ir		
03-23-0001303-01	09584452	Received questionnaire. This meter provides domestic water for this bldg. They are open M-F. There are 16 FT employees and 2 PT. The name of the business is SRC Cables, Inc. ar 3/17/11	indapi	03	a	00021243	Rudy Hirschnitz	5590 Skylane Blvd Santa Rosa, CA 95403-1030	5590 Skylane Blvd		
03-23-0001390-02	10242928		indapi	03	a	00033022	Neilmed Pharmaceutical	601 Aviation Blvd Santa Rosa, CA 95403-1025	601 Aviation Blvd		
03-23-0001543-02	09584455	From website: CPI International Inc. is headquartered in Santa Rosa, CA. CPI International Inc. is operating in the Medical Testing & Clinical Laboratories and Test & Measurement Equipment industries. CPI International Inc. emails end with @cpii.com. The SIC Codes for CPI International Inc. are 36710215 Traveling Wave Tubes, 36790105 Microwave Components, 3699 Electrical Machinery, Equipment, and Supplies, NEC, 38250321 Radio Frequency Measuring Equipment, 3826 Laboratory Analytical Instruments, 50490101 Analytical Instruments. JT	indapi	03	a	00021297	Cpi Inc.	5580 Skylane Blvd Santa Rosa, CA 95403	5580 Skylane Blvd Dom		

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03-23-0001786-01	97295443	3/17/2011: From website: Santa Rosa Stainless Steel is the industry leader in the manufacturing of stainless tanks for dejuicing, fermenting and storage. We offer custom and stock tanks with capacities ranging from one gallon up to 750,000 gallons (brew systems: 25 BBl to 100 BBl). Tanks are made to order, built either in our shop or on site, and can be outfitted with numerous specialized features to meet specific needs. JT	indapi	03	a	00021313	Santa Rosa Stainless	PO Box 518 Santa Rosa, CA 95402-0518	1400 Airport Blvd Dom		
03-23-0001823-03	10242333	1/27/11: Received commercial questionnaire. The meter is for this business only. Square footage for irrigation areas are 8100 approx for lawn and 1000 approx for shrub. Please see attached questionnaire. ar	indapi	03	a	00021325	Stoesser Industries	330 SMC Dr Somerset , WI 54025	3250 Brickway Blvd Dom		
03-23-0001950-02	97997901		indapi	03	a	00021367	Cal-Sensors Inc.	5460 Skylane Blvd Santa Rosa, CA 95403-1084	5464 Skylane Blvd Dom Right		
03-23-0002285-01	97299797	1-13-10 Per Mike Cave, Randy Stores from Redwood Toxicology 570-4363 would like a call prior to any backflow testing. JS	indapi	03	a	00021437	Redwood Toxicology	PO Box 5680 Santa Rosa, CA 95402-5680	3650 Westwind Blvd Dom		
03-23-0002805-03	16260302	1/31/11:Received questionnaire. This meter provides water for just this business. Please see attached commercial questionnaire. ar	indapi	03	a	00031696	Medtronic-Santa Rosa	PO Box 209 Excelsior, MN 55331	3850 Brickway Blvd Dom		
03-23-0002806-03	00208193		indapi	03	a	00032151	Trivascular2 Inc.	3910 Brickway Blvd Santa Rosa, CA 95403	3910 Brickway Blvd Dom		
03-23-0002807-04	00068476	1/27/11: Received commercial questionnaire. The meter for this acct is just for this business. No other business share this meter. Meter provides Domestic and irrigation water. Please see attached questionnaire. ar	indapi	03	a	00034056	Thermalsun Glass, Inc.	3950 Brickway Blvd Santa Rosa, CA 95403	3950 Brickway Blvd Dom		
03-23-0002851-02	00209018	PERMIT #10111 2/8/11: Received questionnaire. There is only one business in this bldg. Please see attached commercial questionnaire. ar	indapi	03	a	00021604	F Korbel Brothers	13250 River Rd Guerneville, CA 95446-9593	501 Aviation Blvd Dom		
03-23-0002905-04	16260303	PERMIT #010187 3/17/2011: Per David - 2 companies here: 1.) Fresenius - Kidney Dialysis (~ 80% use) 2.) Tri Formix - mostly office, some light manufacturing, but most manufacturing overseas now. (~20% use). JT	indapi	03	a	00021632	The Rapp Company	680 Eighth St Ste 265 San Francisco, CA 94103-4942	487 Aviation Blvd Dom		
03-23-0002941-02	99343139	1/31/11: Received questionnaire. This meter provides domestic and irrigation to this bldg. There are 2562 sq ft of lawn and 9216 sq ft of shrubs of irrigated areas. Please see attached commercial questionnaire. ar	indapi	03	a	00032286	Emg Inc.	PO Box 4394 Santa Rosa, CA 95402	675 Aviation Blvd Dom		
03-23-0003115-02	01105769	2/3/11:Received questionnaire. This meter provides domestic water. Please see commercial questionnaire. ar 3/14/2011: From website: P&L Specialties is a design, engineering, fabrication and service company that has been producing the highest quality stainless steel equipment & aluminum structures since 1984. We design, build, integrate and support equipment in many service applications. We believe that value is a combination of quality, service and price. As you get to know us and our products, you will discover that we truly understand and respond to the unique needs of our clients. JT	indapi	03	a	00031533	P & L Specialties	1650 Almar Pkwy Santa Rosa, CA 95403-8253	1650 Almar Pkwy - Dom		
03-23-0003432-02	02075514	PERMIT 02-0512 2/2/11: Received questionnaire. This meter provide domesti water for this business. Please see attached commercial questionnaire. ar	indapi	03	a	00021723	Premium Wine Storage	1450 Airport Blvd Ste 120 Santa Rosa, CA 95403	1450 Airport Blvd Dom		
03-23-0004039-02	05095398	Permit # B05-0309	indapi	03	a	00032289	Castle Concrete Pumping	1220 Century Ct Santa Rosa, CA 95403	1220 Century Ct Dom		
03-23-0005538-01	07001315	Permit #	indapi	03	a	00033702	Austin Creek Ready Mix	600 Austin Creek Rd Cazadero, CA 95421	3425 Brickway Blvd		

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03-23-0230027-01	10241501	2/17/11: Received questionnaire. This meter provides domestic and irrigation water for this bldg. This business is the animal shelter. They have 1918 sq ft of lawn and 8852 sq ft of shrub of irrigated area. Please see attached commercial questionnaire. ar	indapi	03	a	00021820	Sonoma County	2300 County Ctr Dr #A205 Santa Rosa, CA 95403-3009	1247 Century Ct		
03-23-0230064-01	10242854	3/14/2011: From Website: Thermal Technology LLC, the Vacuum Furnace pioneer and High Temperature Furnace design innovator, designs and manufactures vacuum furnace, high temperature furnace, crystal grower systems, spark plasma sintering, hot press furnace, ARC melting furnace and sintering furnace for laboratory and production use. JT	indapi	03	a	00021906	Thermal Technology Inc.	1911 Airport Blvd Santa Rosa, CA 95403-1001	1911 Airport Blvd		
03-23-0230071-01	09668693	3/14/2011: From website: Wright Engineered Plastics is an environmentally responsible plastic injection molder and contract manufacturer. Located in the San Francisco Bay Area, Wright supplies high-quality plastic components and tooling for companies in the Medical, Telecommunications, Electronics, Defense and Business Equipment industries. JT	indapi	03	a	00021927	Wright Engineered Plastic	3225 Regional Pkwy Ste A Santa Rosa, CA 95403-8220	3225 Regional Pk Do		
03-23-0230082-01	10296370	Do not change mailing address on accounts without contacting Soil and first for verification. JLA 6/2012 1/31/11: WE received questionnaire. There are 3 businesses in this bldg (Soil and, Iron Dog Fabrication, Ceramic Illusions). This meter provides domestic water and irrigation water. Please see attached questionnaire.	indapi	03	a	00021953	Soiland Prop	3450 Regional Pkwy Ste A Santa Rosa, CA 95403-8247	3450 Regional Pkwy		
03-23-0230205-01	19611215	3/14/2011: Website info: Western Fiberglass, Inc. is a manufacturer of products for fluid and hazardous materials handling including piping systems, petroleum equipment, fluid containment devices and installation services. We have a background in high technology FRP fabrication and fluid systems handling design. Western Fiberglass, Inc. provides full design and fabrication capabilities, as well as installation, technical training and on-site supervision. Founded in 1982, we are a family owned and operated California Corporation headquartered in Santa Rosa, California. Additional manufacturing facilities are located in Gloucester, Virginia. JT	indapi	03	a	00022069	Western Fiberglass Inc.	1555 Copperhill Pkwy Santa Rosa, CA 95403-8200	1555 Copperhill Pkwy		
03-27-0002890-01	00212683	PERMIT# P10112 & 00-1018 3/14/2011: Per website, millwork services provided. JT	indapi	03	a	00023727	Mt Storm Forest Products	5700 Earhart Ct Windsor, CA 95492-6858	5700 Earhart Ct Dom		
02-30-0003368-01	70		indcuf	02	a	00015254	Sonoma Cutrer Vineyards	4401 Slusser Rd Windsor, CA 95492	4401 Slusser Rd		
02-30-0003369-01	78	Old note: 10 CU FT METER USED FOR FLS ONLY METER SHOULD SHOW NO USAGE. 9/8/08: According to old paperwork, In October 2002, Sonoma Cutrer pd SCWA an estimated $35,000 for a 12" turnout (FLS service) & a 10" meter installation. JT	indcuf	02	a	00015256	Sonoma Cutrer Vineyards	4401 Slusser Rd Windsor, CA 95492	4401 Slusser Rd		

APPENDIX N

Town of Windsor Capital Projects Schedule and Budget

Table N-1. Recommended Capacity Improvement Projects

Project Name	Brief Description	Estimated Capital Cost, April 2000[a]	Estimated Capital Cost, Feb. 2014[b]	Status (February 2014)
North Trunk Relief Sewer	550 lf of new 15-inch diameter sewer.	$77,000	N/A	Completed
South Trunk Relief Sewer	1,840 lf of new 18-inch diameter sewer.	$233,000	$364,000	Remaining to be completed, sequence and timing to be coordinated with associated development.
Los Amigos Extension	2,090 lf of new 12-inch diameter sewer.	$199,000	N/A	Completed.
West Trunk Phase I	625 lf of new 24-inch diameter sewer; 150 lf of new 18-inch diameter sewer; 3,360 lf of new 15-inch diameter sewer; 740 lf of new 12-inch diameter sewer.	$679,000	N/A	Completed.
West Trunk Phase II	2,090 feet of new 12-inch diameter sewer.	$281,000	N/A	Completed.
West Trunk Phase III	3,040 feet of new 12-inch diameter sewer.	$340,000	$531,000	Remaining to be completed, sequence and timing to be coordinated with associated development.
West Trunk Phase IV	5,150 feet of new 10-inch diameter sewer.	$618,000	$965,000	Remaining to be completed, sequence and timing to be coordinated with associated development.
The Shiloh Greens Lift Station	North of Windsor Golf Course	N/A[c]	N/A	Completed.
Vintage Greens Lift Station	South of existing plant	N/A[c]	N/A	Completed.

[a] Estimated capital cost from Master Trunk Sewer Plan (April 2000); Table 5-1, 5-2, 5-3.
[b] Costs were advanced from April 2000 to February 2014 using the Engineering News Record (ENR) 20-Cities Index Values of 6,200 for April 2000 and 9,681 for February 2014.
[c] No estimated capital costs were included for the lift stations in the Master Trunk Sewer Plan (April 2000).

WATER RECLAMATION REPAIR & REPLACEMENT - 411-82 EXPENDITURE DETAIL	2011-12 ACTUAL EXPENSE	2012-13 AMENDED BUDGET	2012-13 ESTIMATE TO 6/30/13	2013-14 ADOPTED BUDGET	2014-15 ADOPTED BUDGET
PERSONNEL					
4110 Regular Positions Pay	60,617	76,835	59,736	88,499	88,499
4150 Fringe Benefits	21,716	29,535	22,056	31,526	33,457
TOTAL PERSONNEL	$ 82,333	$ 106,370	$ 81,792	$ 120,025	$ 121,956
Principal Civil Engineer	0.200	0.200	0.200	0.200	0.200
Director - Public Works	0.250	0.250	0.250	0.250	0.250
Associate Engineer	0.200	0.200	0.200	0.300	0.300
	0.650	0.650	0.650	0.750	0.750
MAINTENANCE & OPERATIONS					
4260 Professional Development	-	-	-	750	750
4425 Computer Expense	-	-	-	11,500	-
4435 Operational Expense	-	-	-	6,500	-
4450 Professional Services	12,777	3,229	4,449	-	-
4450 Professional Services-Project Managers	45,703	155,012	86,444	10,000	-
4452 Contract Services	-	-	-	13,500	-
TOTAL MAINTENANCE & OPERATIONS	$ 58,480	$ 158,241	$ 90,893	$ 42,250	$ 750
CAPITAL OUTLAY					
4570 Mobile Equip & Vehicle Acquisition	-	58,474	23,501	35,000	-
4580 Structures & Improvements					
SCADA System Improvements	-	-	-	75,000	-
Geographic Information System (GIS) (1446)	-	75,000	75,000	-	-
Facilities Management System (1445)	-	25,000	25,000	-	-
Document Scanner System (2500)	-	50,000	-	-	-
Keiser Master Plan (0016)	-	15,695	15,695	-	-
SCADA System Upgrade (1183)	-	110,156	110,156	-	-
Shone Farm Reservoir (1191)	-	300,000	200,000	-	-
Mitchell Lane Pump Station Upgrade (1404)	-	180,000	-	-	-
Mitchell Lane Transfer Pipeline (1401)	-	720,000	-	-	-
West Trunk Sewer Final Phase (1440)	-	174,123	174,000	820,000	-
Plant Energy Efficiency Improvements (1405)	-	260,000	-	-	-
Mark West Creek Diffuser (1400)	-	300,000	-	-	-
Treatment Plant Equip Replace/Upgrades (1197)	18,475	581,125	520,000	64,000	183,500
WR Facility Security Fencing Repair & Upgrade	-	-	25,000	220,000	-
WR Facility Grit Removal System Repair & Upgrade	-	-	-	152,000	-
WR Facility Return Activated Sludge Screening	-	-	-	45,000	230,000
WR Facility Headworks Screening Upgrade	-	-	-	45,000	300,000
WR Facility Influent Wet Well Screen Installation	-	-	-	-	80,000
Records Storage Expansion	-	-	-	15,000	40,000
Corporation Yard Pavement Resurfacing (60% share)	-	-	-	116,000	-
Windsor Rd Sidewalk Gap Closure	-	-	-	-	235,000
TOTAL CAPITAL OUTLAY	$ 18,475	$ 2,849,574	$1,168,352	$ 1,587,000	$ 1,068,500
OTHER FINANCING USES					
4941 Transfer-Out - Water Reclamation Capital Fund	1,674,492	-	-	-	-
TOTAL OTHER FINANCING USES	$ 1,674,492	$ -	$ -	$ -	$ -
TOTAL EXPENSE	$ 1,833,781	$ 3,114,185	$1,341,037	$ 1,749,275	$ 1,191,206

APPENDIX O

Town of Windsor Performance Measure and Collection System Management Goal Tracking Sheets

Appendix O-1: Town of Windsor Performance Measures and Collection System Management Goals									
Performance Measure	Quarterly Calculation Jun 2014	Quarterly Calculation Sep 2014	Quarterly Calculation Dec 2014	Yearly Performance Evaluation Dec 2014	Quarterly Calculation Mar 2015	Quarterly Calculation Jun 2015	Quarterly Calculation Sep 2015	Quarterly Calculation Dec 2015	Yearly Performance Evaluation Dec 2015
Total number of SSO locations per 100 miles of sewer									
Volume of spilled wastewater recovered (MG/yr) compared to total volume of wastewater spilled (MG/yr)									
Volume of spilled wastewater discharged to surface waters (MG/yr) compared to total volume of wastewater spilled (MG/yr)									
Footage of collection system inspected within 200 feet of waterway (feet)									
Footage of collection system inspected not within 200 feet of waterway (feet)									
Footage of collection system cleaned within 200 feet of waterway (feet)									
Footage of collection system cleaned not within 200 feet of waterway (feet)									
Completion of yearly-updated Collection System Management Goals									
Collection System Management Goals	Quarterly Assessment Jun 2014	Quarterly Assessment Sep 2014	Quarterly Assessment Dec 2014	Yearly Performance Evaluation Dec 2014	Quarterly Assessment Mar 2015	Quarterly Assessment Jun 2015	Quarterly Assessment Sep 2015	Quarterly Assessment Dec 2015	Yearly Performance Evaluation Dec 2015
Complete GIS update of sanitary sewer collection system.									
Produce GIS-based map book for collection system.									
Complete five-year implementation of collection system CMMS.									
Update SSMP per River Watch Settlment Agreement (Complete by Feb 2015).									
Implement Surface Water Condition Assessment per River Watch Settlment Agreement. (Complete by Feb 2017)									
Implement Full Condition Assessment per River Watch Settlment Agreement (Complete by Feb 2024)									
Implement OERP per River Watch Settlment Agreement (Complete by Feb 2015).									
Implement Lateral Inspection/Repair Program per River Watch Settlment Agreement (Complete by Feb 2015).									
Implement Water Balance Analysis for High Flow EQ Ponds per River Watch Settlment Agreement (Complete by May 2016).									
Produce Annual Summaries for River Watch Settlement Ageement (Due Feb 2015 and then each May).									
Complete Bi-Annual SSMP Audit.									

APPENDIX P

Town of Windsor SSMP Update Tracking Log

Appendix P: Town of Windsor SSMP Update Log

Description		Original	Update #1			Update #2		
Document	Element	Completion Date	Update Date	Responsible Party	Notes	Update Date	Responsible Party	Notes
SSMP	Element 1 Town Goals	March 2014						
	Element 2 Organization	March 2014	February 2015	Jim Smith	Org Chart and Position Description updated to reflect organizational changes.			
	Element 3 Legal Authority	March 2014						
	Element 4 Operation and Maintenance Program	March 2014	February 2015	Jim Smith	Element updated to reflect new factors for prioritization of condition assessment, rehabilitation, repair, and replacement.			
	Element 5 Design and Performance Provisions	March 2014						
	Element 6 Overflow Emergency Response Plan	March 2014	February 2015	Jim Smith	Updated to reflect new water quality sampling and testing protocols.			
	Element 7 Fats, Oils, and Grease (FOG) Program	March 2014						
	Element 8 System Evaluation and Capacity Assurance Plan	March 2014						
	Element 9 Monitoring, Measurements, and Program Modifications	March 2014						
	Element 10 SSMP Program Audits	March 2014						
	Element 11 Communication Plan	March 2014	February 2015	Jim Smith	Updated to reflect all changes to the SSMP made in February 2015.			

Appendix P: Town of Windsor SSMP Update Log

Description		Original	Update #1			Update #2		
Document	Element	Completion Date	Update Date	Responsible Party	Notes	Update Date	Responsible Party	Notes
Appendices	Appendix A - SSS WDR, Order No. WQ 2013-0058-EXEC, and Riverwatch Settlement Agreem	March 2014						
	Appendix B - Names, Positions, and Contact Information	March 2014	February 2015	Jim Smith	Org Chart and Position Description updated to reflect organizational changes.			
	Appendix C - Sample Sanitary Sewer Collection System Map	March 2014						
	Appendix D - Sanitary Sewer Collection System Asset Inventory	March 2014	February 2015	Jim Smith	Appendix updated to reflect revised Hotspot designations.			
	Appendix E - Town of Windsor Inspection, Cleaning, Rehabilitation, Repair, and Repair Flow Chart; Prioritization Factor Tables	March 2014	February 2015	Jim Smith	Appendix updated to reflect new factors for prioritization of condition assessment, rehabilitation, repair, and replacement.			
	Appendix F - Sanitary Sewer Pump Station Maintenance Logs and Schedules	March 2014						
	Appendix G - Collection System Hot Spot Map and Gravity Main List	March 2014	February 2015	Jim Smith	Appendix updated to reflect revised Hotspot designations.			
	Appendix H - Prioritized Inspection, Rehabilitation, Repair, and Replacement Schedule	March 2014	February 2015	Jim Smith	Appendix updated to reflect new factors for prioritization of condition assessment, rehabilitation, repair, and replacement.			
	Appendix I - Town of Windsor Inventory and Consumables List	March 2014						
	Appendix J - Town of Windsor Public Works Training Schedule and Record	March 2014						
	Appendix K - Town of Windsor Overflow Emergency Response Plan (OERP)	March 2014	February 2015	Jim Smith	Updated to reflect new water quality sampling and testing protocols.			
	Appendix L - Town of Windsor FOG Outreach Resources	March 2014						
	Appendix M - Town of Windsor Application for Waste Discharge Permit and Agreement with City of Santa Rosa for Source Control Services	March 2014						
	Appendix N - Town of Windsor Capital Projects Schedule and Budget	March 2014						

Appendix P: Town of Windsor SSMP Update Log								
Description		Original	Update #1			Update #2		
Document	Element	Completion Date	Update Date	Responsible Party	Notes	Update Date	Responsible Party	Notes
	Appendix O - Town of Windsor Performance Measure and Collection System Management Goal Tracking Sheets	March 2014						
	Appendix P - Town of Windsor SSMP Update Tracking Log	March 2014	February 2015	Jim Smith	Updated to reflect all changes to the SSMP made in February 2015.			
	Appendix Q - Town of Windsor SSMP Audit Checklist	March 2014						
	Appendix R - Local Governing Board Approval and Communications	March 2014	February 2015	Jim Smith	Updated to reflect all changes to the SSMP made in February 2015.			

APPENDIX Q

Town of Windsor SSMP Audit Checklist

1.1 AUDIT CHECKLIST AND GAP ANALYSIS TEMPLATE

	Requirement	Gap That Could Be Improved to Best Management Practice	Gap That Hinders Effectiveness as Management Tool	Gap in Compliance with Amended (2013) WDR	Gap in Effectiveness or Compliance with Existing WDR	Comments
ELEMENT 1 – GOALS						
A.	Are the goals stated in the SSMP still appropriate and accurate?					
ELEMENT 2 -- ORGANIZATION						
A.	Is the Public Works Services Key Staff Telephone List current?					
B.	Is the Sanitary Sewer Overflow Responder Telephone List current?					
C.	Is Figure 1 of the SSMP, entitled "Town Organization Chart," current?					
D.	Are the position descriptions an accurate portrayal of staff responsibilities?					
E.	Does the SSMP identify the Chain of Communication for Responding to SSOs, and is it accurate and up-to-date?					
F.	Does the SSMP identify the Chain of Communication for Reporting SSOs, and is it accurate and up-to-date?					
G.	Does the SSMP identify staff responsible for implementing, specific measures in the SSMP?					
ELEMENT 3 – LEGAL AUTHORITY						
Does the SSMP contain excerpts from the current Town of Windsor Code documenting the Town's legal authority to:						
A.	Prevent illicit discharges?					
B.	Require proper design and construction of sewers and connections?					
C.	Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Town?					
D.	Limit discharges of fats, oil and grease?					
E.	Enforce any violation of its sewer ordinances?					
ELEMENT 4 – OPERATIONS AND MAINTENANCE						
Collection System Maps						
A.	Does the SSMP reference the current process and procedures for maintaining the Town's wastewater collection system maps?					
B.	Are the Town's wastewater collection system maps complete, current, and sufficiently detailed (including showing applicable storm water conveyance facilities)?					
Resources and Budget						
C.	Does the Town allocate sufficient funds for the effective operation, maintenance and repair of the wastewater collection system and is the current budget structure documented in the SSMP?					
Prioritized Preventive Maintenance						
D.	Does the SSMP describe current preventive maintenance activities and the system for prioritizing regular maintenance and cleaning of the system?					
E.	Based upon information in the Annual SSO Report, are the Town's preventive maintenance activities sufficient and effective in minimizing SSOs and blockages?					

	Requirement	Gap That Could Be Improved to Best Management Practice	Gap That Hinders Effectiveness as Management Tool	Gap in Compliance with Amended (2013) WDR	Gap in Effectiveness or Compliance with Existing WDR	Comments
Scheduled Inspections and Condition Assessments						
F.	Is there an ongoing condition assessment program? Are the current components of this program documented in the SSMP?					
G.	Is there a system for prioritizing the rehabilitation and replacement program? Does the capital improvement plan (CIP) include a time schedule for implementing the short- and long-term needs, plus a schedule for developing the funds needed for the CIP?					
Training						
H.	Is the training calendar current?					
I.	Does the SSMP document current training expectations and programs within the Town's Wastewater Division?					
Contingency Equipment and Replacement Inventory						
J.	Does the SSMP list the major equipment currently used in the operation and maintenance of the collection system and document the procedures of inventory management?					
K.	Are contingency equipment and replacement parts sufficient to respond to emergencies and properly conduct regular maintenance?					
Outreach to Plumbers and Building Contractors						
L.	Does the SSMP document current outreach efforts to plumbers and building contractors?					
ELEMENT 5 – DESIGN AND PERFORMANCE STANDARDS						
A.	Does the SSMP contain current design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances and for the rehabilitation and repair of existing sanitary sewer systems?					
B.	Does the SSMP document current procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and the rehabilitation and repair of existing sewer lines?					
ELEMENT 6 – OVERFLOW AND EMERGENCY RESPONSE PLAN						
A.	Does the Town's Sanitary Sewer Overflow (SSO) Emergency Response Plan (ERP) establish procedures for the emergency response, notification, and reporting of SSOs?					
B.	Does the SSO ERP establish procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Revised MRP? Does the SSMP identify the officials who will receive immediate notification?					
C.	Does the SSO ERP include a program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to surface waters and to minimize or correct any adverse impact on the environment resulting from the SSOs?					
D.	Are staff and contractor personnel appropriately trained on the procedures of the SSO ERP?					

	Requirement	Gap That Could Be Improved to Best Management Practice	Gap That Hinders Effectiveness as Management Tool	Gap in Compliance with Amended (2013) WDR	Gap in Effectiveness or Compliance with Existing WDR	Comments
E.	Considering performance indicator data in the Annual SSO Report, is the Sanitary Sewer Overflow Emergency Response Plan effective in handling SSOs to safeguard public health and the environment?					
ELEMENT 7 – FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM						
A.	Does the Fats, Oils, and Grease (FOG) Control Program include efforts to educate the public on the proper handling and disposal of FOG?					
B.	Does the Town's FOG Control Program identify sections of the collection system subject to FOG blockages, establish a cleaning schedule and address source control measures to minimize these blockages?					
C.	Are requirements for grease removal devices, best management practices (BMP), record keeping and reporting established in the Town's FOG Control Program?					
D.	Does the Town have sufficient legal authority to implement and enforce the FOG Control Program?					
E.	Is the current FOG program effective in minimizing blockages of sewer lines resulting from discharges of FOG to the system?					
ELEMENT 8 – SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN						
A.	Does the Sanitary Sewer Master Plan evaluate hydraulic deficiencies in the system, establish sufficient design criteria and recommend both short and long term capacity enhancement and improvement projects?					
B.	Does the Town's Capital Improvement Plan (CIP) establish a schedule of approximate completion dates for both short and long-term improvements and is the schedule reviewed and updated to reflect current budgetary capabilities and activity accomplishment?					
ELEMENT 9 – MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS						
A.	Does the SSMP accurately portray the methods of tracking and reporting selected performance indicators?					
B.	Is the Town able to sufficiently evaluate the effectiveness of SSMP elements based on relevant information?					
ELEMENT 10 – SSMP PROGRAM AUDITS						
A.	Will the SSMP Audit be submitted with the SSO Annual Report to the Regional Water Board by March 15th of the year following the end of the calendar year being audited?					
ELEMENT 11 – COMMUNICATION PROGRAM						
A.	Does the Town effectively communicate with the public and other agencies about the development and implementation of the SSMP and continue to address any feedback?					

APPENDIX R

Local Governing Board Approval and Communications

RESOLUTION NO. 3071-14

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF WINDSOR APPROVING AND CERTIFYING THE MARCH 2014 SEWER SYSTEM MANAGEMENT PLAN (SSMP) UPDATE AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD ORDER 2006-0003-DWQ "SANITARY SEWER SYSTEM WASTE DISCHARGE REQUIREMENTS" AND AUTHORIZING THE TOWN MANAGER TO CERTIFY FUTURE NON-CONSEQUENTIAL SSMP CHANGES

WHEREAS, on May 2, 2006, the State Water Resources Control Board (SWRCB) issued Order No. 2006-0003-DWQ "Sanitary Sewer System Waste Discharge Requirements" (SSS WDR); and

WHEREAS, the purpose of the SSS WDR is to develop a regulatory mechanism to provide a consistent statewide approach for reducing sanitary sewer overflows (SSOs); and

WHEREAS, pursuant to the statewide SSS WDR, public agencies that own and operate sanitary sewer systems greater than one mile in length were required to develop an SSMP in accordance with Order No. 2006-0003-DWQ requirements and present it to the agency's governing board for approval at a public meeting; and

WHEREAS, the Town of Windsor developed an SSMP based on the SSS WDR requirements, certified its various elements and the Town Council approved the SSMP and its implementation on July 15, 2009; and

WHEREAS, the SSS WDR requires that the SSMP be updated every five (5) years, that the update include any significant program changes, and that re-certification by the governing board is required when significant updates to the SSMP are made; and

WHEREAS, on July 30, 2013 the SWRCB amended the Monitoring and Reporting Program for the SSS WDR (SWRCB Order No. WQ 2013-0058 EXEC); and

WHEREAS, the March 2014 SSMP update constitutes a significant revision that requires approval and re-certification by the governing Board.

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Windsor hereby approves and certifies the March 2014 SSMP update and its implementation, and directs the Town Manager to periodically update the SSMP as necessary to reflect current regulatory requirements and best practices.

BE IT FURTHER RESOLVED that the Town Manager or her designee is hereby authorized and directed to certify future non-consequential SSMP changes with the State Water Resources Control Board.

PASSED, APPROVED AND ADOPTED this 19th day of March 2014, by the following vote:

AYES:	**COUNCILMEMBERS ALLEN, FUDGE, GOBLE, SALMON AND MAYOR OKREPKIE**
NOES:	**NONE**
ABSTAIN:	**NONE**
ABSENT:	**NONE**

BRUCE OKREPKIE, MAYOR

ATTEST:

IRENE CAMACHO-WERBY,
DEPUTY TOWN CLERK

RESOLUTION NO. 3072-14 WWD

A RESOLUTION OF THE WINDSOR WATER DISTRICT APPROVING AND CERTIFYING THE MARCH 2014 SEWER SYSTEM MANAGEMENT PLAN (SSMP) UPDATE AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD ORDER 2006-0003-DWQ "SANITARY SEWER SYSTEM WASTE DISCHARGE REQUIREMENTS" AND AUTHORIZING THE GENERAL MANAGER TO CERTIFY FUTURE NON-CONSEQUENTIAL SSMP CHANGES

WHEREAS, on May 2, 2006, the State Water Resources Control Board (SWRCB) issued Order No. 2006-0003-DWQ "Sanitary Sewer System Waste Discharge Requirements" (SSS WDR) to the Town of Windsor; and

WHEREAS, the purpose of the SSS WDR is to develop a regulatory mechanism to provide a consistent statewide approach for reducing sanitary sewer overflows (SSOs); and

WHEREAS, pursuant to the statewide SSS WDR, public agencies that own and operate sanitary sewer systems greater than one mile in length were required to develop an SSMP in accordance with Order No. 2006-0003-DWQ requirements and present it to the agency's governing board for approval at a public meeting; and

WHEREAS, the Town of Windsor developed an SSMP based on the SSS WDR requirements, certified its various elements and the Town Council approved the SSMP and its implementation on July 15, 2009; and

WHEREAS, the SSS WDR requires that the SSMP be updated every five (5) years, that the update include any significant program changes, and that re-certification by the governing board is required when significant updates to the SSMP are made; and

WHEREAS, on July 30, 2013 the SWRCB amended the Monitoring and Reporting Program for the SSS WDR (SWRCB Order No. WQ 2013-0058 EXEC); and

WHEREAS, the March 2014 SSMP update constitutes a significant revision that requires approval and re-certification by the governing Board; and

WHEREAS, pursuant to Title XII, Chapter 4 of the Code of the Town of Windsor, the Windsor Water District and its General Manager and other officers are authorized to take specific actions with respect to the Town of Windsor Sewer System; and

WHEREAS, the Windsor Water District has therefore reviewed the March 2014 SSMP update prepared for the Town of Windsor.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Windsor Water District hereby approves and certifies the March 2014 SSMP update and its implementation, and directs the General Manager to periodically update the SSMP as necessary to reflect current regulatory requirements and best practices.

BE IT FURTHER RESOLVED that the General Manager or her designee is hereby authorized and directed to certify future non-consequential SSMP changes with the State Water Resources Control Board.

PASSED, APPROVED AND ADOPTED this 19th day of March 2014, by the following vote:

AYES:	**MEMBERS ALLEN, FUDGE, GOBLE, SALMON AND CHAIR OKREPKIE**
NOES:	**NONE**
ABSTAIN:	**NONE**
ABSENT:	**NONE**

BRUCE OKREPKIE, CHAIR

ATTEST:

IRENE CAMACHO-WERBY,
ACTING SECRETARY

TOWN OF WINDSOR
TOWN CLERK'S OFFICE
WINDSOR CIVIC CENTER, BLDG. 400
9291 Old Redwood Highway
Windsor, CA 95492

NOTICE OF PUBLIC MEETING

The Windsor Town Council will hold a public meeting at its regular meeting on **Wednesday, March 19, 2014 at 6:00 p.m., or as soon thereafter as the matters may be heard,** in the Windsor Town Council Chambers, 9291 Old Redwood Highway, Bldg 400, Windsor. The Town Council will consider the approval of Sewer System Management Plan (SSMP) Update 2014. The SSMP describes the Town's wastewater collection system management activities. The intent of the SSMP is to implement a formalized rehabilitation, operation, and maintenance program for the Town's collection system.

The Town of Windsor encourages interested parties to attend public meetings and comment on the issue being discussed. If you wish to provide testimony and are unable to attend the meeting, written comments delivered to the Town Clerk's office prior to the hearing will be made a part of the public record.

Prior to the hearing, staff reports and agendas may be requested from the Public Works Department for a minimal fee to recover reproduction costs and are also accessible on the Town's website prior to the Town Council meeting at **www.ci.windsor.ca.us**. Contact Person: Toni Bertolero, Principal Civil Engineer, (707) 838-5978.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in the Town Council meeting, please contact the Town Clerk at 707-838-5311. Notification at least 48 hours prior to the meeting will assist Town staff in assuring that reasonable accommodations are made to provide accessibility to the meeting.

Publish: The Windsor Times
Date: March 13, 2014

RESOLUTION NO. 3166-15

RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF WINDSOR APPROVING AND CERTIFYING THE FEBRUARY 2015 UPDATES TO THE MARCH 2014 SEWER SYSTEM MANAGEMENT PLAN (SSMP) AND AUTHORIZING THE TOWN MANAGER TO APPROVE FUTURE NON-CONSEQUENTIAL SSMP CHANGES

WHEREAS, on May 2, 2006, the State Water Resources Control Board (SWRCB) issued Order No. 2006-0003-DWQ "Sanitary Sewer System Waste Discharge Requirements" (SSS WDR); and

WHEREAS, the purpose of the SSS WDR is to develop a regulatory mechanism to provide a consistent statewide approach for reducing sanitary sewer overflows (SSOs); and

WHEREAS, pursuant to the statewide SSS WDR, public agencies that own and operate sanitary sewer systems greater than one mile in length were required to develop an SSMP in accordance with Order No. 2006-0003-DWQ requirements and present it to the agency's governing board for approval at a public meeting; and

WHEREAS, the Town of Windsor developed an SSMP based on the SSS WDR requirements, certified its various elements and the Town Council approved the SSMP and its implementation on July 15, 2009; and

WHEREAS, the SSS WDR requires that the SSMP be updated every five (5) years, that the update include any significant program changes, and that re-certification by the governing board is required when significant updates to the SSMP are made; and

WHEREAS, on July 30, 2013 the SWRCB amended the Monitoring and Reporting Program for the SSS WDR (SWRCB Order No. WQ 2013-0058 EXEC); and

WHEREAS, the March 2014 SSMP update constituted a significant revision that required approval and re-certification by the governing Board and was approved and certified by the Town Council on March 19, 2014; and

WHEREAS, the Town and California River Watch entered into a Settlement Agreement and Mutual Release of Claims dated February 6, 2014 ("Settlement Agreement") that required the Town to make certain additional updates to its SSMP by February 6, 2015; and

WHEREAS, there was insufficient time to incorporate the updates required by the Settlement Agreement into the March 2014 SSMP update; and

WHEREAS, the Town has now prepared updates to certain chapters of the March 2014 SSMP, which include the updates required by the Settlement Agreement; and

WHEREAS, this document is herein referred to as the February 2015 SSMP Updates.

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Windsor hereby approves and certifies the February 2015 SSMP Updates and its implementation, and directs the Town Manager to periodically update the SSMP as necessary to reflect current regulatory requirements and best practices.

BE IT FURTHER RESOLVED that the Town Manager or her designee is hereby authorized and directed to approve future non-consequential SSMP changes.

PASSED, APPROVED AND ADOPTED this 4th day of February 2015 by the following vote:

AYES:	**COUNCILMEMBERS FUDGE, SALMON AND MAYOR OKREPKIE**
NOES:	**NONE**
ABSTAIN:	**NONE**
ABSENT:	**COUNCILMEMBER FOPPOLI AND VICE MAYOR MILLAN**

BRUCE OKREPKIE, MAYOR

ATTEST:

MARIA DE LA O, TOWN CLERK

WWD RESOLUTION NO. 1851-15

RESOLUTION OF THE BOARD OF THE WINDSOR WATER DISTRICT APPROVING AND CERTIFYING THE FEBRUARY 2015 UPDATES TO THE MARCH 2014 SEWER SYSTEM MANAGEMENT PLAN (SSMP) AND AUTHORIZING THE GENERAL MANAGER TO APPROVE FUTURE NON-CONSEQUENTIAL SSMP CHANGES

WHEREAS, on May 2, 2006, the State Water Resources Control Board (SWRCB) issued Order No. 2006-0003-DWQ "Sanitary Sewer System Waste Discharge Requirements" (SSS WDR); and

WHEREAS, the purpose of the SSS WDR is to develop a regulatory mechanism to provide a consistent statewide approach for reducing sanitary sewer overflows (SSOs); and

WHEREAS, pursuant to the statewide SSS WDR, public agencies that own and operate sanitary sewer systems greater than one mile in length were required to develop an SSMP in accordance with Order No. 2006-0003-DWQ requirements and present it to the agency's governing board for approval at a public meeting; and

WHEREAS, the Town of Windsor developed an SSMP based on the SSS WDR requirements, certified its various elements and the Town Council approved the SSMP and its implementation on July 15, 2009; and

WHEREAS, the SSS WDR requires that the SSMP be updated every five (5) years, that the update include any significant program changes, and that re-certification by the governing board is required when significant updates to the SSMP are made; and

WHEREAS, on July 30, 2013 the SWRCB amended the Monitoring and Reporting Program for the SSS WDR (SWRCB Order No. WQ 2013-0058 EXEC); and

WHEREAS, the March 2014 SSMP update constituted a significant revision that required approval and re-certification by the governing Board and was approved and certified by the Town Council and the Board on March 19, 2014; and

WHEREAS, the Town and California River Watch entered into a Settlement Agreement and Mutual Release of Claims dated February 6, 2014 ("Settlement Agreement") that required the Town to make certain additional updates to its SSMP by February 6, 2015; and

WHEREAS, there was insufficient time to incorporate the updates required by the Settlement Agreement into the March 2014 SSMP update; and

WHEREAS, the Town has now prepared updates to certain chapters of the March 2014 SSMP, which include the updates required by the Settlement Agreement; and

WHEREAS, this document is herein referred to as the February 2015 SSMP Updates.

NOW, THEREFORE, BE IT RESOLVED that the Board of the Windsor Water District hereby approves and certifies the February 2015 SSMP Updates and its implementation, and directs the General Manager to periodically update the SSMP as necessary to reflect current regulatory requirements and best practices.

BE IT FURTHER RESOLVED that the General Manager or her designee is hereby authorized and directed to approve future non-consequential SSMP changes.

PASSED, APPROVED AND ADOPTED this 4th day of February 2015 by the following vote:

AYES:	**BOARD MEMBERS FUDGE, SALMON AND PRESIDENT OKREPKIE**
NOES:	**NONE**
ABSTAIN:	**NONE**
ABSENT:	**BOARD MEMBER FOPPOLI AND VICE PRESIDENT MILLAN**

BRUCE OKREPKIE, PRESIDENT

ATTEST:

MARIA DE LA O, SECRETARY